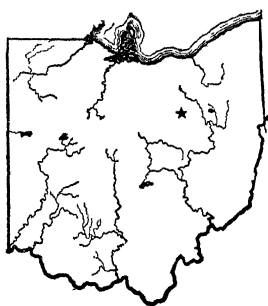


OHIO WEATHER FOR 1916

OHIO
Agricultural Experiment
Station

WOOSTER, OHIO, U. S. A., JUNE, 1917

BULLETIN 314



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CONTENTS

I. Introduction: Explanatory	617
II. Weather maps	618
III. Climatological data for Ohio.....	681
IV. Meteorological Summary	682

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BULLETIN
OF THE
Ohio Agricultural Experiment Station

NUMBER 314

JUNE, 1917

OHIO WEATHER FOR 1916

W H ALEXANDER AND C A PATTON

EXPLANATORY

BY THE DIRECTOR

The extension of the work of the Experiment Station over the State, through the district and county experiment farms, makes it necessary that its weather records be state-wide in their application. Hitherto the only attempt at such application has been to give the average rainfall and temperature for the entire State for comparison with the observations taken at the main station at Wooster, but it is now possible, through the cooperation of W. H. Alexander, section director for Ohio of the U. S. Weather Bureau, to supplement these records with a series of diagrammatic maps, showing at a glance the comparative weather conditions for the various sections of the State.

These maps are followed by the usual summary tables.

Mean temperature, January, 1916



Fig. 1.—The mean temperature for the State was 35.5°. The highest local monthly mean was 40.9° at Portsmouth, Scioto County, and the lowest was 29.9° at Napoleon, Henry County. The highest temperature recorded during the month was 75° at Syracuse on the 27th and the lowest was —8° at Paulding on the 17th. The greatest daily range was 56° at Hillsboro on the 13th.

Temperature departures, January, 1916

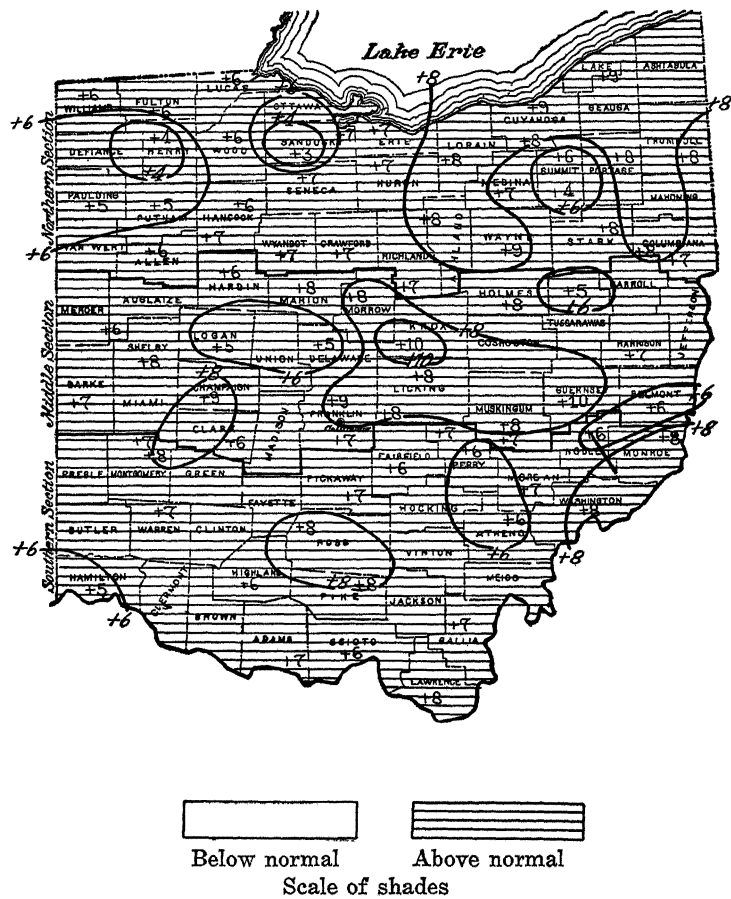


Fig. 2—The mean temperature for the State was 7.0° above the normal—a remarkable excess. Relatively cold weather prevailed from the 6th to the 8th and from the 13th to the 19th, inclusive. From the 20th to the 31st, inclusive, remarkably warm weather prevailed.

Precipitation, January, 1916

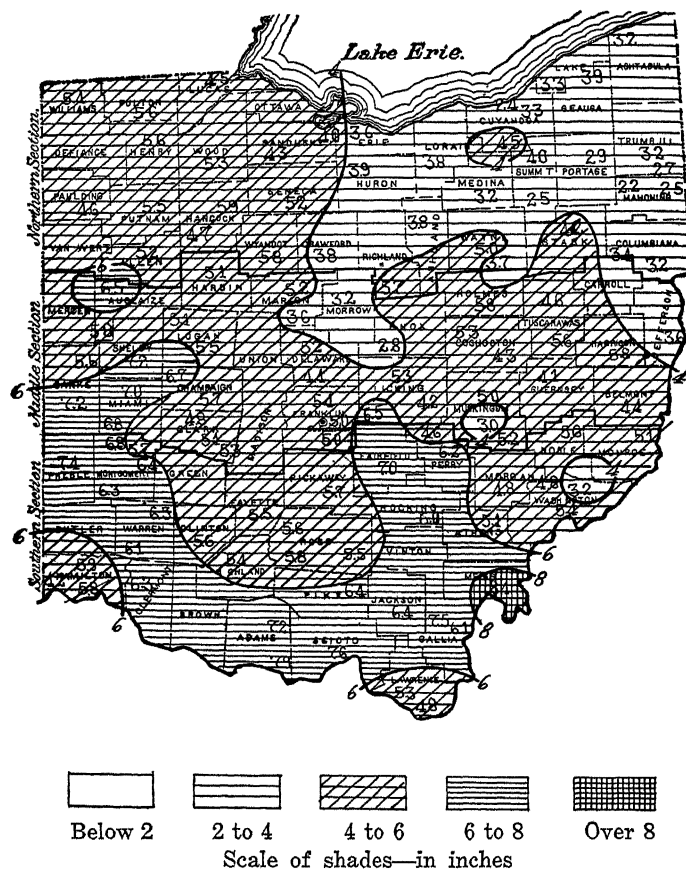


Fig. 3.—The average precipitation for the State was 5.07 inches. The largest amount reported was 8.42 inches at Syracuse, Meigs County, and the smallest, 2.19 at Milton Dam, Mahoning County. Precipitation was general and in many places quite heavy on the 1st, 2d, 5th, 10th, 11th, 12th, 13th, 20th, 21st, 22d, 27th to 31st, inclusive. The average number of days with precipitation was 14. The largest 24-hour fall was 2.4 inches at Portsmouth.

Precipitation departures, January, 1916

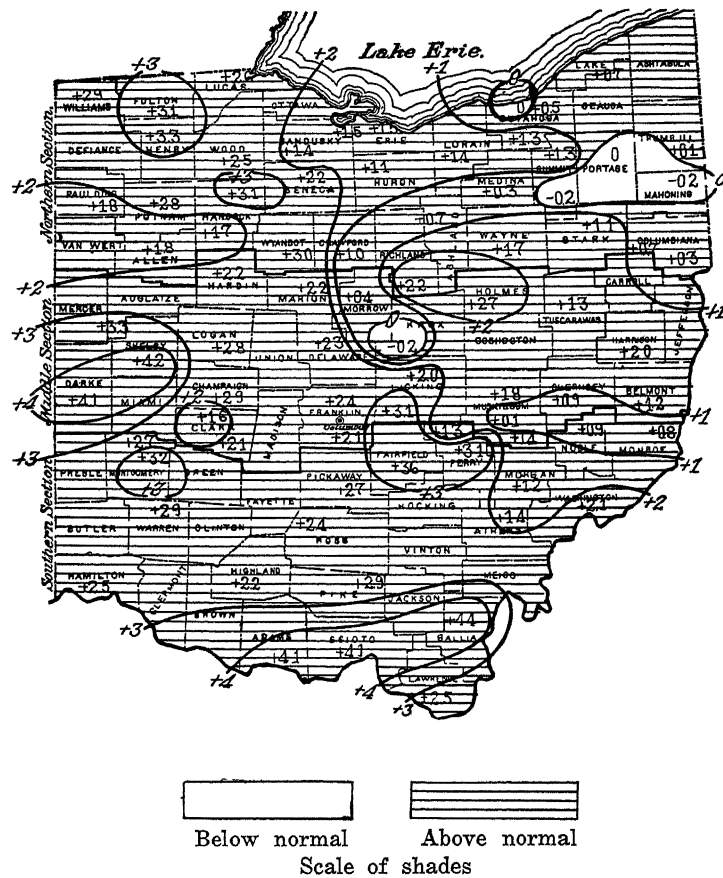
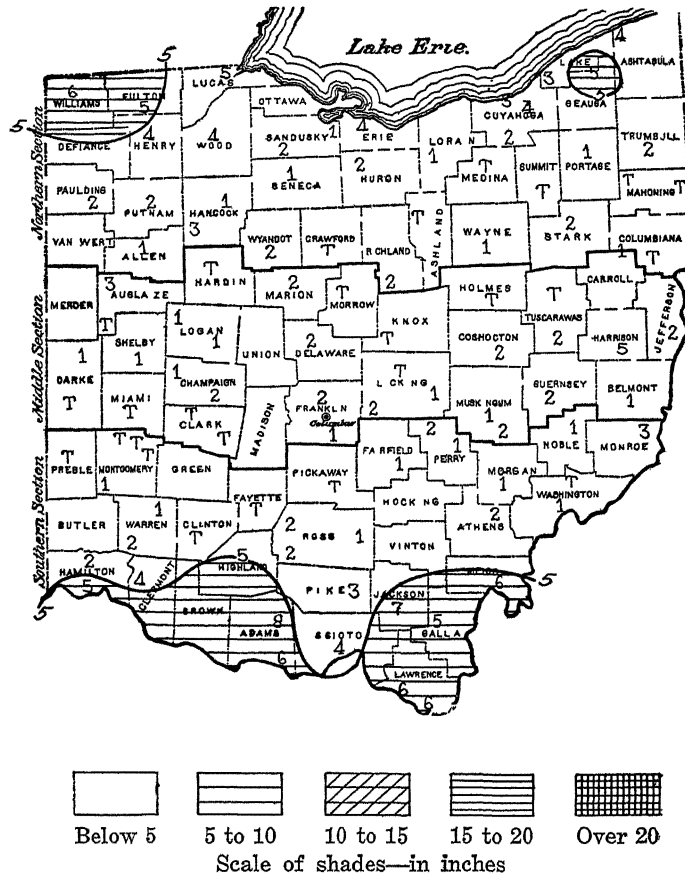


Fig. 4.—The precipitation averaged 1.91 inches above the normal. This excess was fairly well distributed over the State, being greatest in the middle division and in a few counties along the Ohio River.

Snowfall, January, 1916



Precipitation, February, 1916



Fig. 8.—The average precipitation for the State was 1.83 inches, the largest amount reported being 4.48 inches at Thurman and the smallest amount 0.52 inch at Ottawa. The average number of days with 0.01 inch or more was 9. Much of the precipitation fell in the form of snow as shown by Fig. 10.

Snowfall, February, 1916

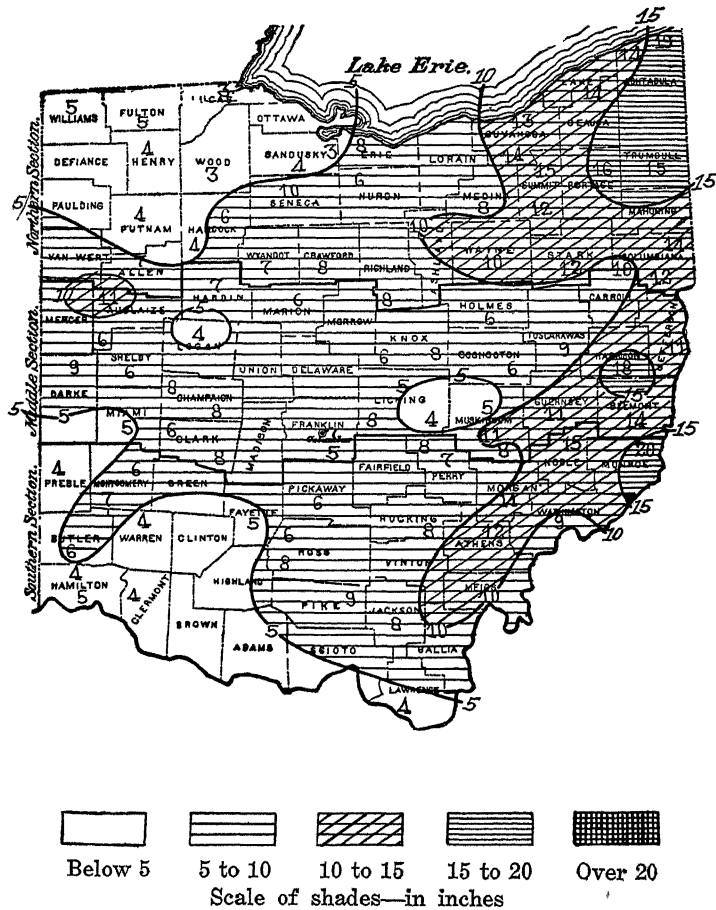


Fig. 10.—The average snowfall for the State was 8.4 inches; the greatest amount at any one station was 19.7 inches in Monroe County. Snow fell frequently during the month but did not remain long on the ground.

Mean temperature, March, 1916



Fig. 11.—The average temperature for the State was 34.7° , the highest monthly mean being 44.4° at Green, and the lowest 26.6° at Geneva and Kingsville. The maximum for the month was 87° at Portsmouth on the 25th and the minimum was -10° at Millport, Columbiana and Hillhouse on the 18th. The greatest daily range was 50° at Toboso on the 25th. Low temperatures were persistent through the first and second decades of the month.

Temperature departures, March, 1916

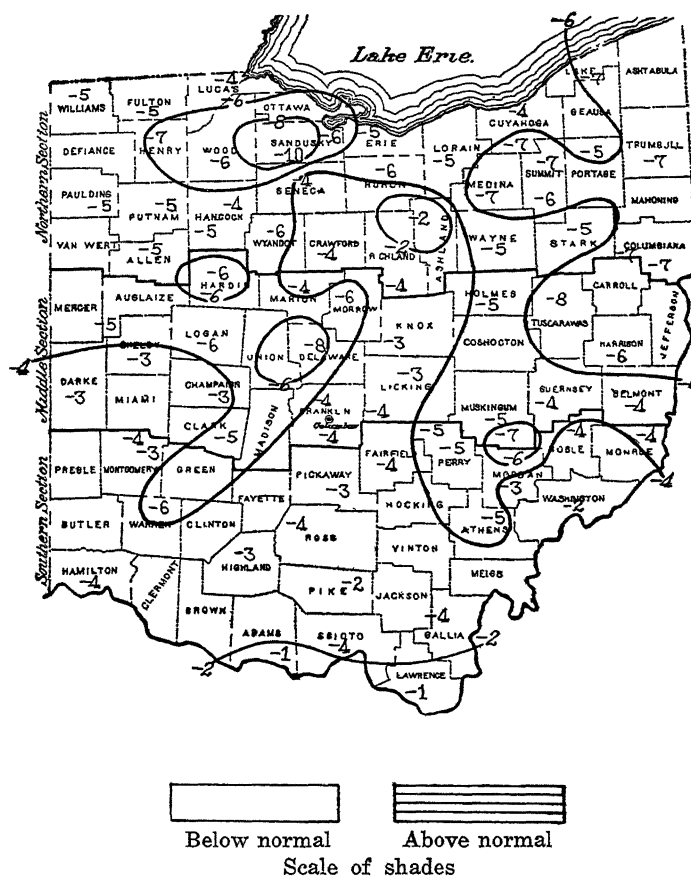


Fig. 12.—The mean temperature for the month was 4.8° below the normal, the first and second decades being exceptionally cold and disagreeable. The month was unfavorable for outdoor work.

Precipitation, March, 1916

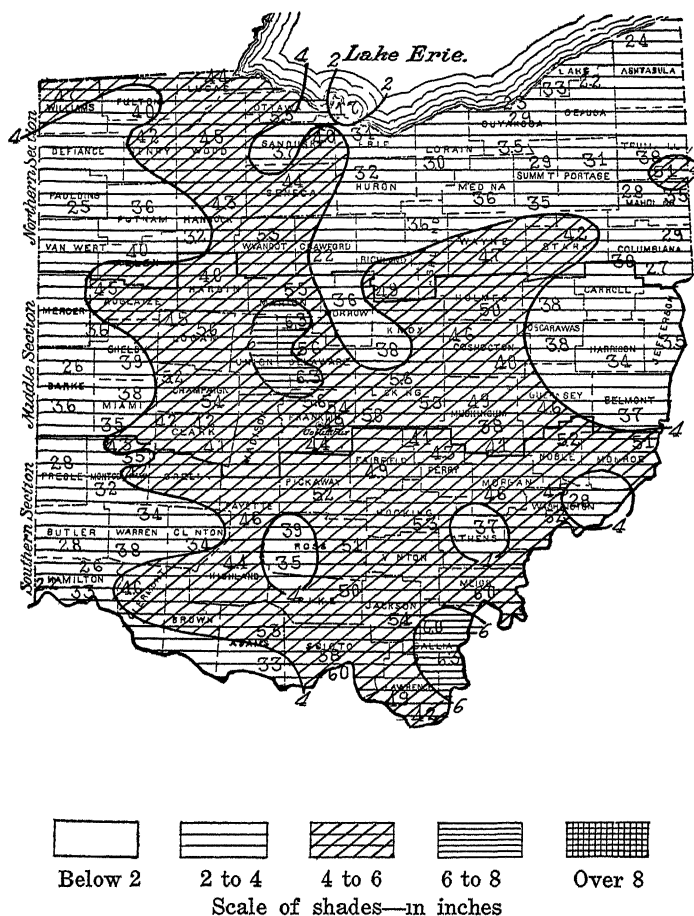


Fig. 13.—The average precipitation for the State was 4.15 inches. The largest amount reported was 6.32 inches at Bellpoint, and the least, 1.70 inches at Danbury. The greatest 24-hour fall was 2.65 at Marion on the 26th. Precipitation to the amount of 0.01 inch or more occurred on 11 days.

Precipitation departures, March, 1916

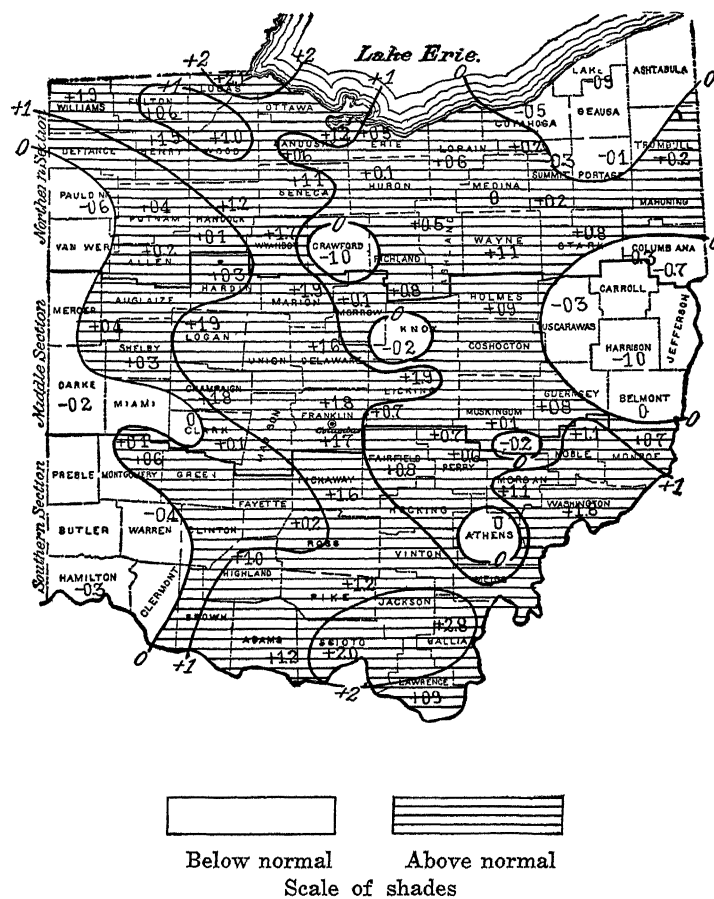


Fig. 14.—The average precipitation for the month was 0.56 inch above the normal. A few counties show a deficiency as shown on the map.

Snowfall, March, 1916

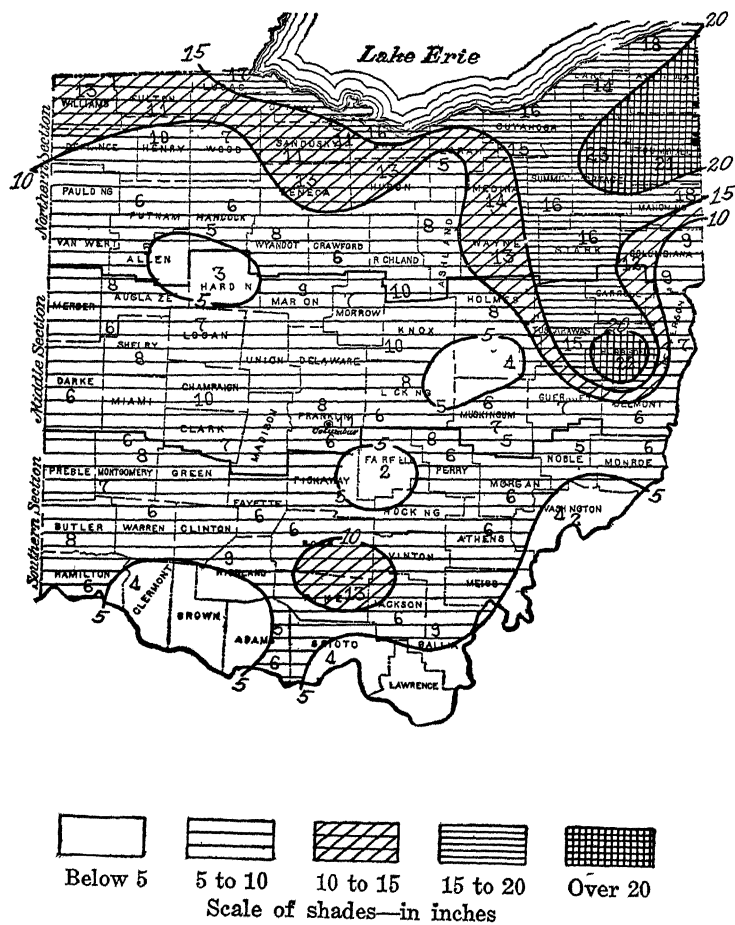


Fig. 15.—The snowfall for the month averaged for the State 8.8 inches, which is considerably above the normal for March, the amounts ranging from a few inches in the southwest to 20 inches or more in the northeast. The greatest local amount was 23 inches at Hiram.

Temperature departures, April, 1916

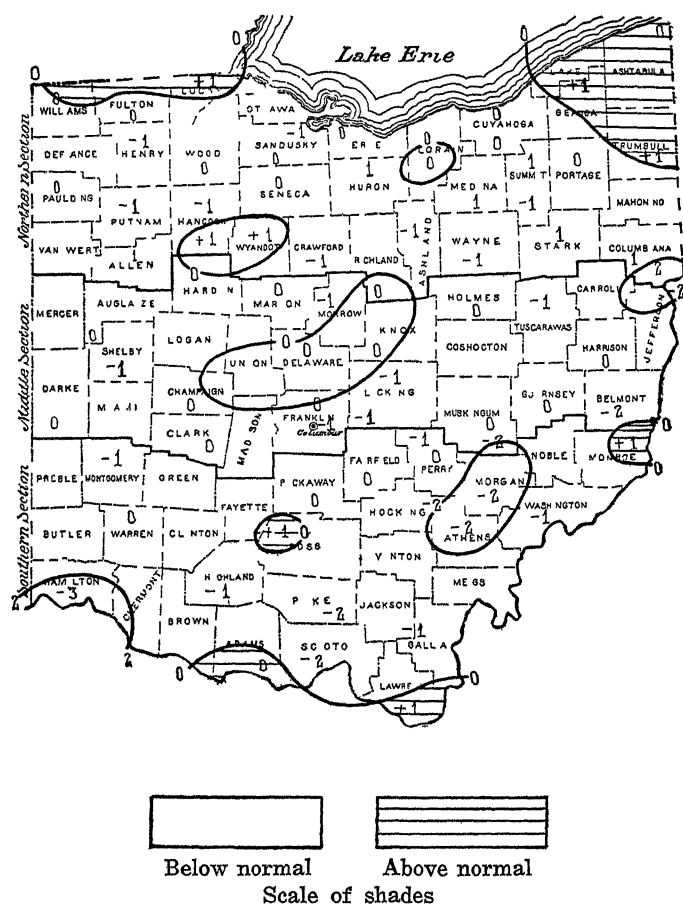


Fig. 17.—The mean temperature for the month was 0.6° below the normal, many stations recording a mean exactly normal. There were two cold spells: one on the 6th-10th, the other, 22d-28th. Conditions were generally unfavorable for outdoor work.

Precipitation, April, 1916

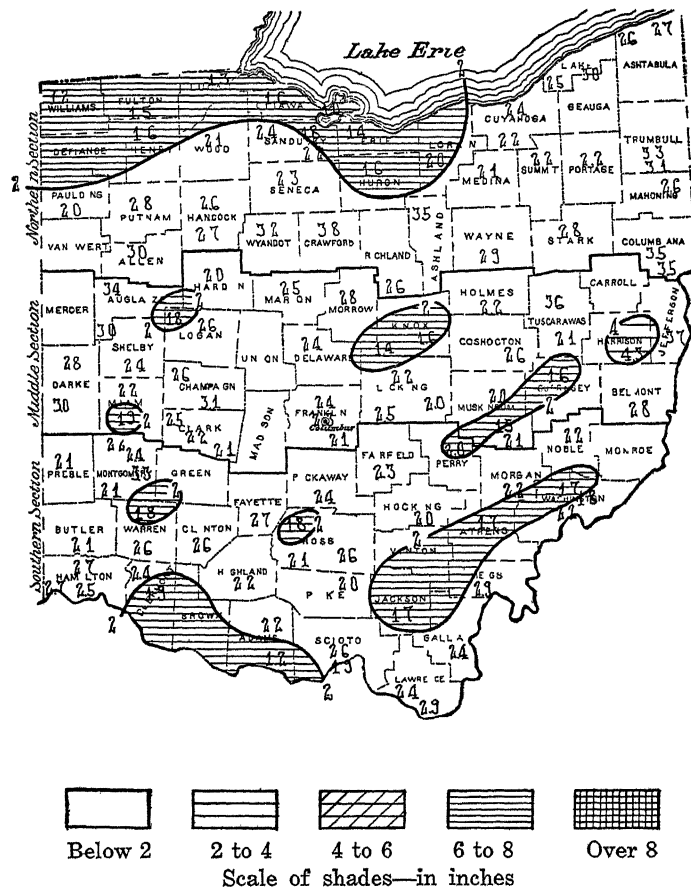


Fig. 18.—The precipitation for the month averaged 2.35 inches. The largest amount reported was 4.26 inches at Cadiz; the least, 0.91 inch at Danbury. The heaviest 24-hour fall was 1.8 inches at Greenville on the 20th-21st. Precipitation was frequent but light.

Precipitation departures, April, 1916

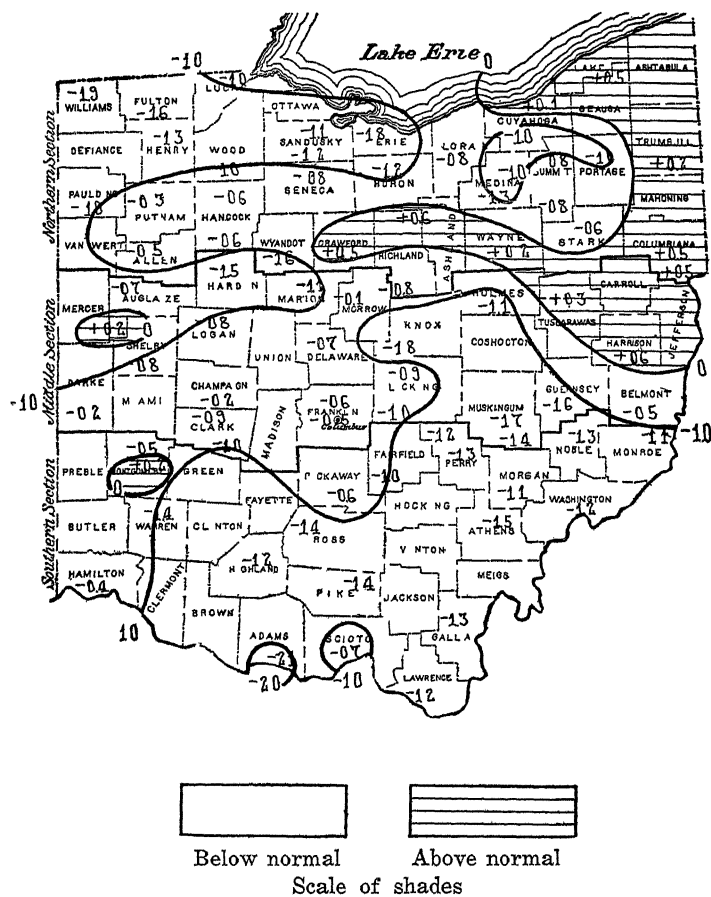
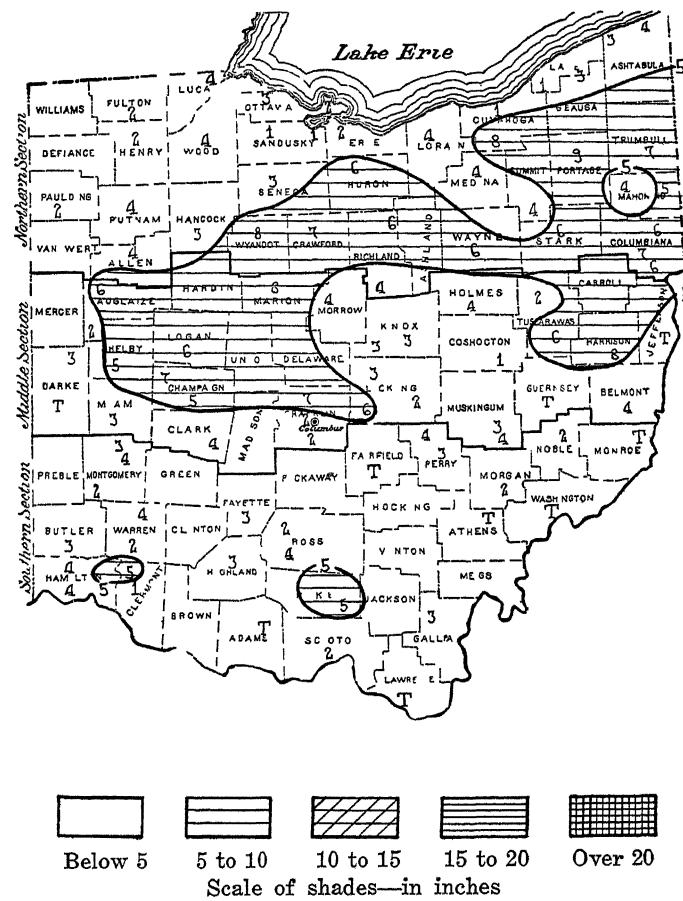


Fig. 19.—The average precipitation for the State was 0.76 inch below the normal. This deficiency was general over the State except in a few of the northeastern counties.

Snowfall, April, 1916.



* Fig. 20.—The average snowfall for the State was 3.3 inches, and the largest local amount was 9 inches at Hiram.

Temperature departures, May, 1916

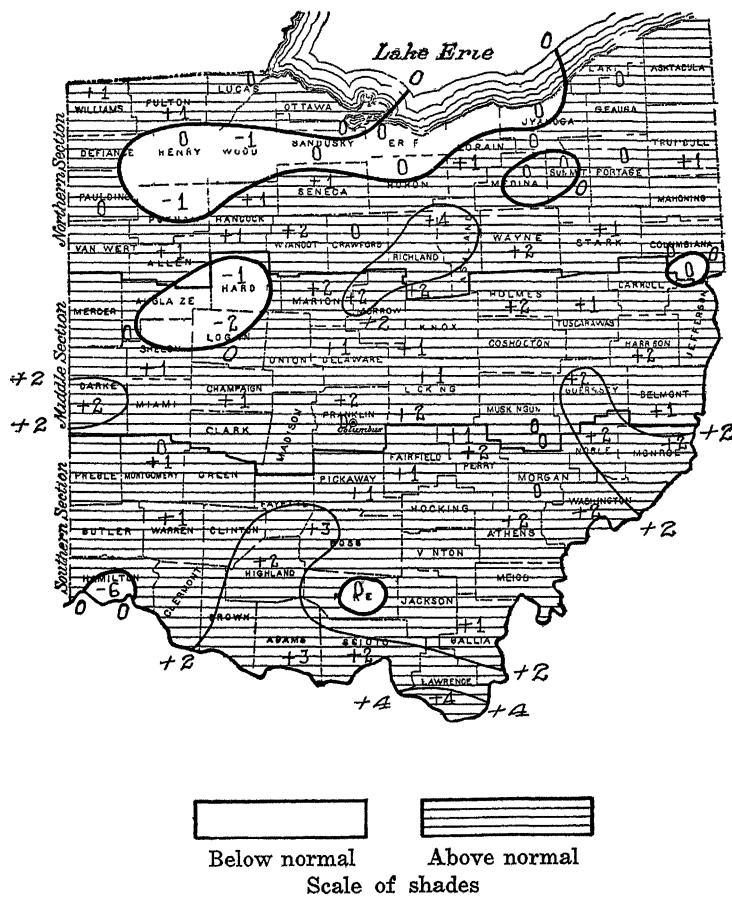


Fig. 22.—The average temperature for the month and State was 0.9° above the normal. The month was damp and cold, frost occurring quite generally during the latter part of the second decade.

Precipitation, May, 1916

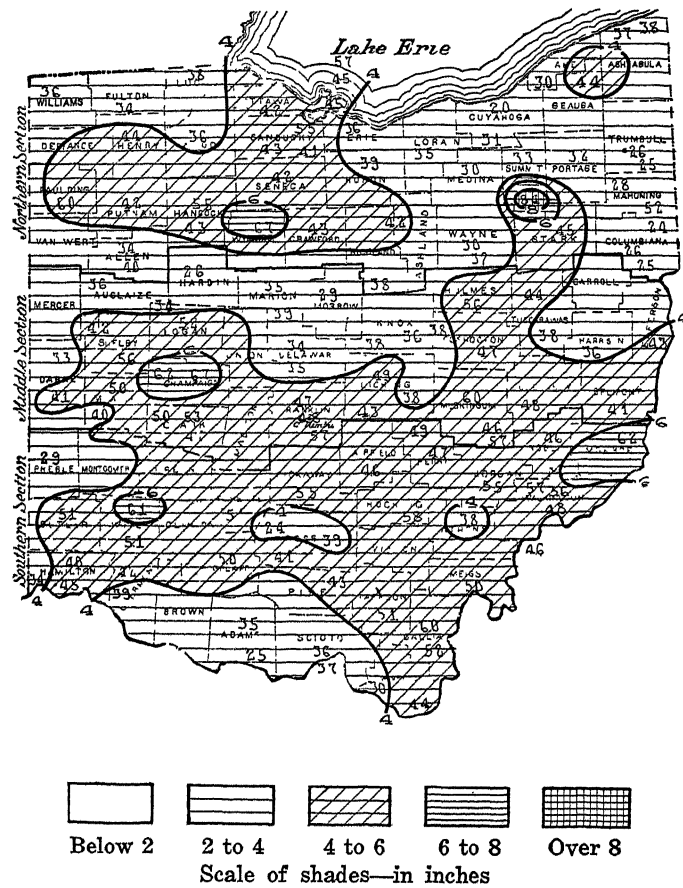


Fig. 23.—The average precipitation for the State was 4.27 inches, the station amounts ranging from 2.04 inches at Cleveland to 8.35 inches at Akron. The greatest 24-hour fall occurred at Akron on the 28th-29th, 5.13 inches. A trace of snow fell at Hiram on the 18th.

Precipitation departures, May, 1916

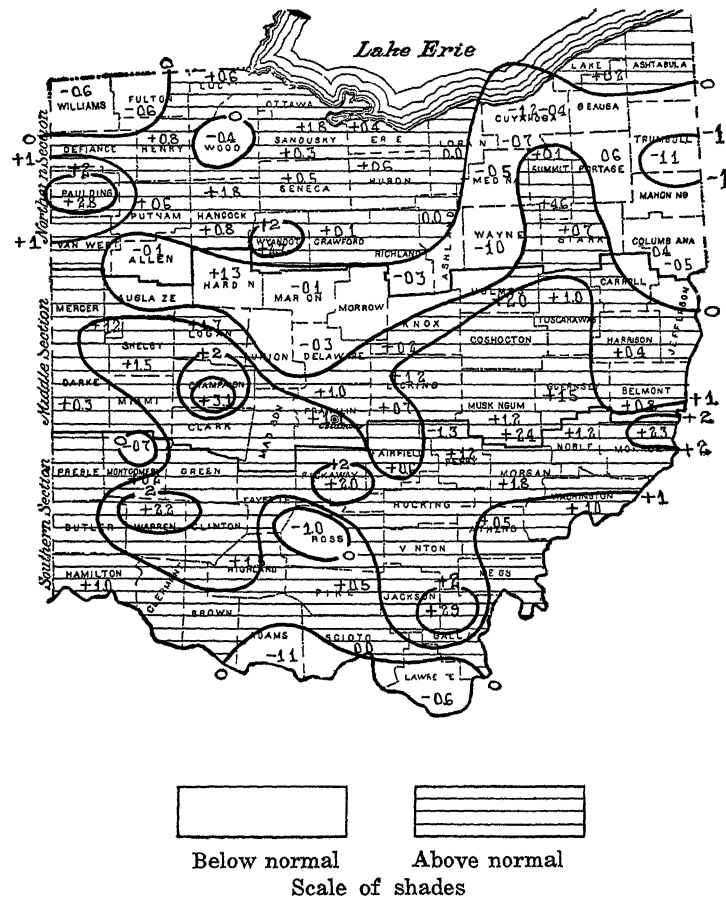


Fig. 24.—The average precipitation for the State was 0.62 inch above normal and occurred on about 13 days. Heavy local rains, occasionally attended by destructive winds, hail and lightning were more or less frequent.

Precipitation, June, 1916

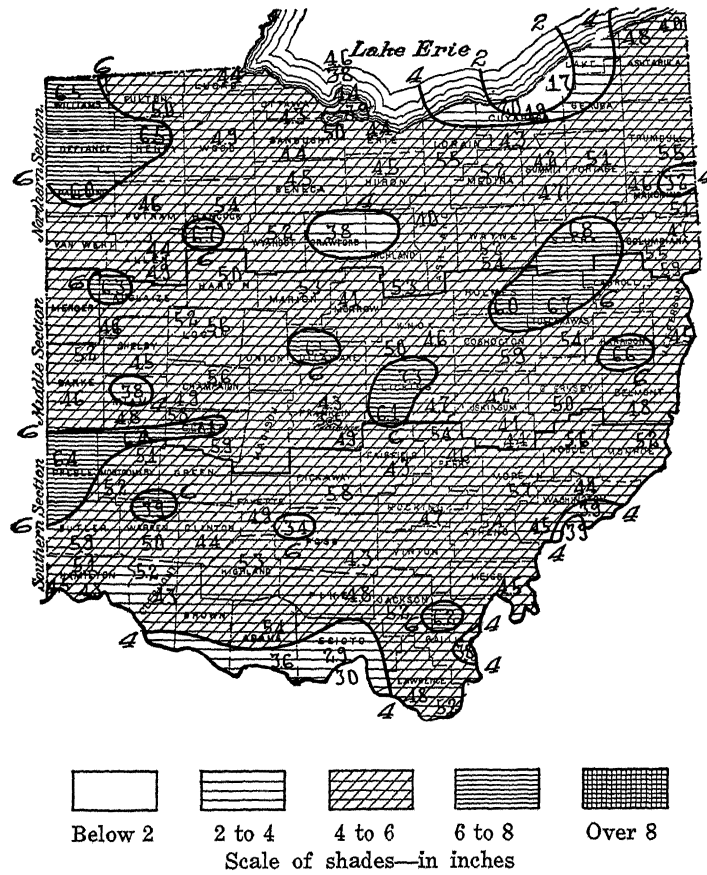
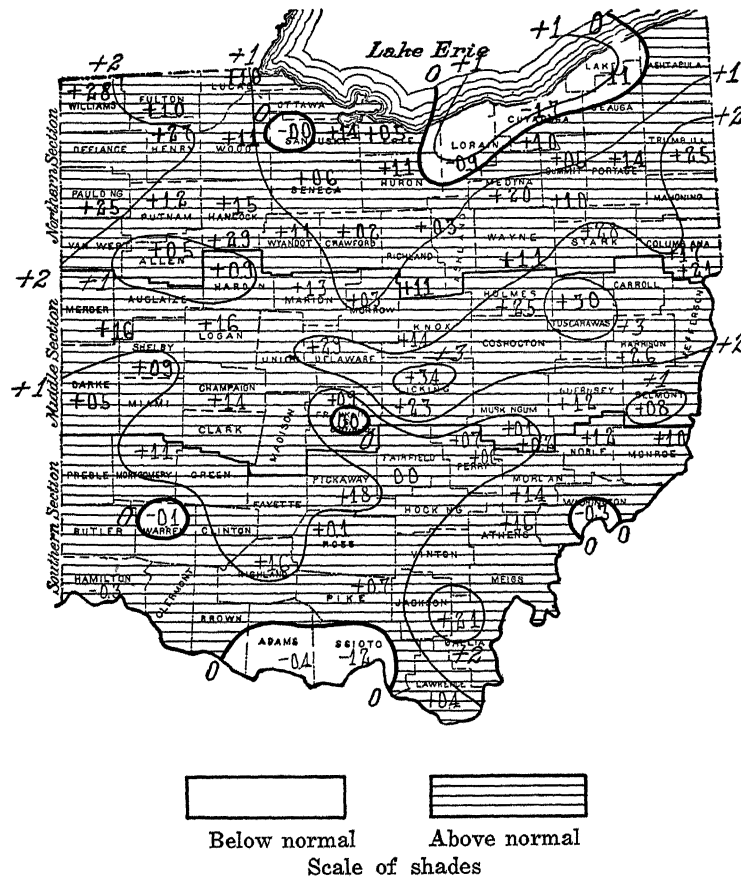


Fig. 27.—The average rainfall for the State was 4.86 inches, the largest amount at any one station being 7.34 inches at Granville, and the least, 1.68 inches at Wickliffe. The greatest 24-hour fall was 2.89 inches at Eaton (also at Granville) on the 3d. The last week of the month was almost without rain, which proved to be the beginning of a long drouthy period.

Precipitation departures, June, 1916



Mean temperature, July, 1916



Fig. 29.—The average temperature for July was 76.9°, the station averages ranging from 71.6° at Green Hill to 80.1° at Catawba Island. The highest temperature reported was 103° at Dayton (2) on the 27th and the lowest, 45°, at Columbiana on the 4th and at Milligan on the 6th. The greatest daily range was 49° at Milligan on the 7th. The month, as a whole, was unusually warm, comparing favorably with the notable July of 1901. The percentage of sunshine was quite large. As indicated on the map above the western counties experienced warmer weather than the eastern.

Temperature departures, July, 1916

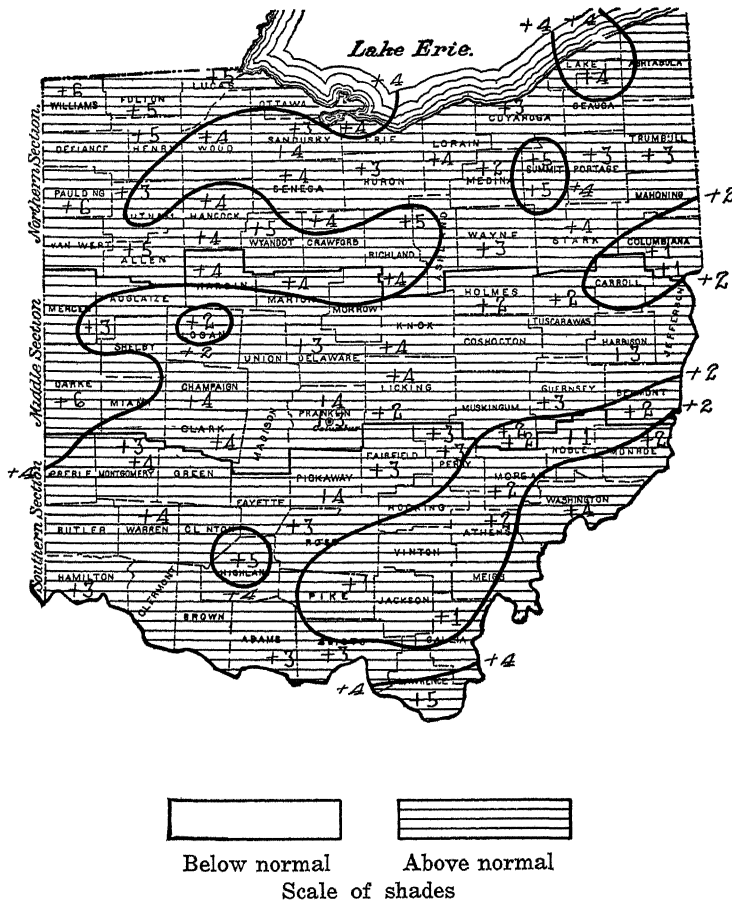


Fig. 30.—The average temperature for the month and State was 3.4° above normal. The excess occurred during the second and third decades of the month and was greatest in northwestern counties.

Precipitation departures, July, 1916

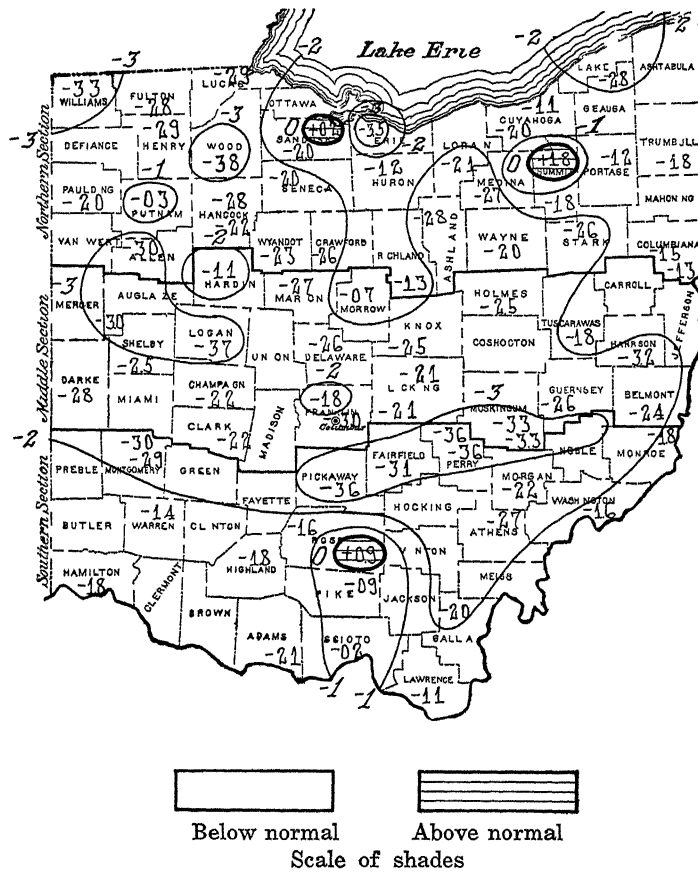


Fig. 32.—The rainfall for the month averaged 2.18 inches below the normal and was much below the needs of the farm and pastures. Only three stations (shown on the map above) recorded an excess. The rather sudden change from cool to hot, from wet to dry, was not altogether favorable to plant growth.

Temperature departures, August, 1916

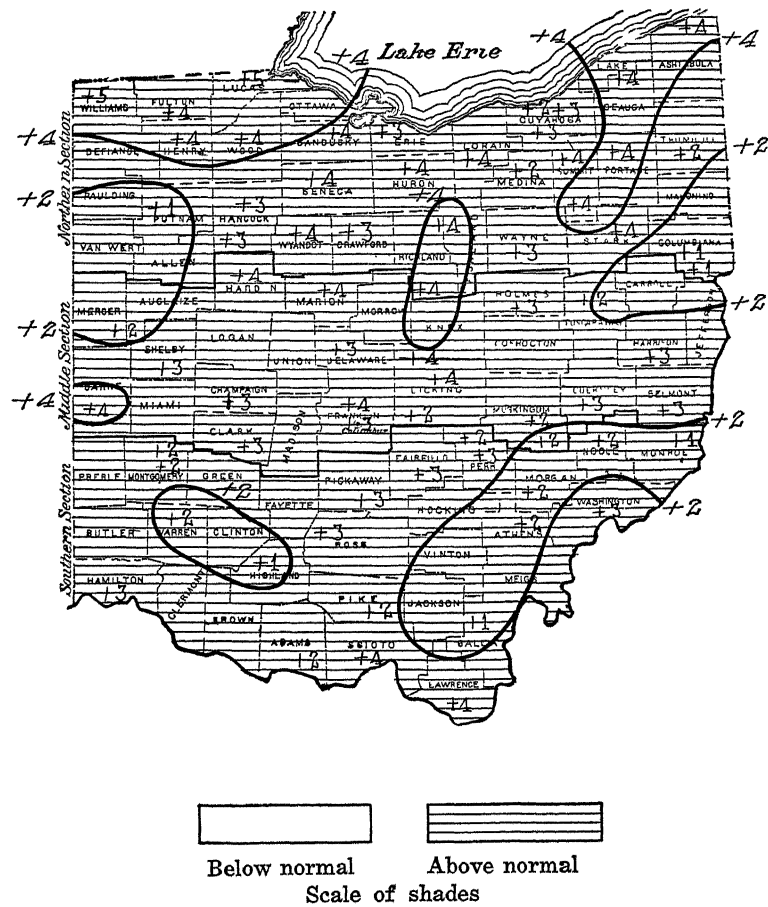


Fig. 34.—The average temperature for the month was 2.9° above the State normal. The excesses occurred during the first and second decades. The drouthy conditions of the preceding month were intensified by the prolonged hot weather that prevailed during the greater portion of this month.

Precipitation, August, 1916

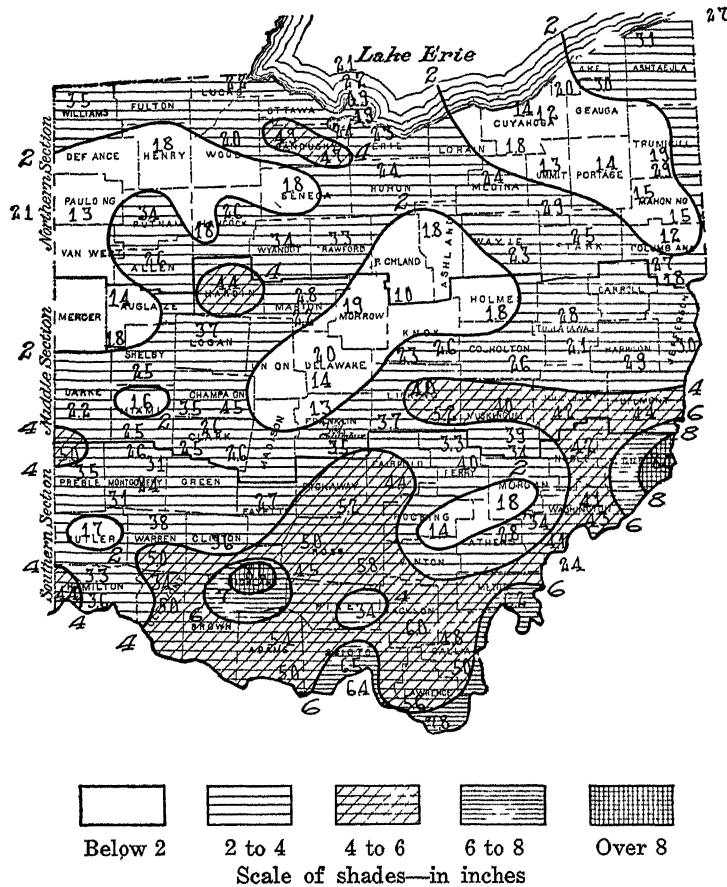


Fig. 35.—The average rainfall for the State was 3.11 inches, the station totals ranging from 0.81 inch (the least) at Lakeview to 8.63 inches (the greatest) at Hillsboro. Much of the precipitation came in the form of thunderstorms, and in some instances the fall was quite heavy.

Precipitation departures, August, 1916

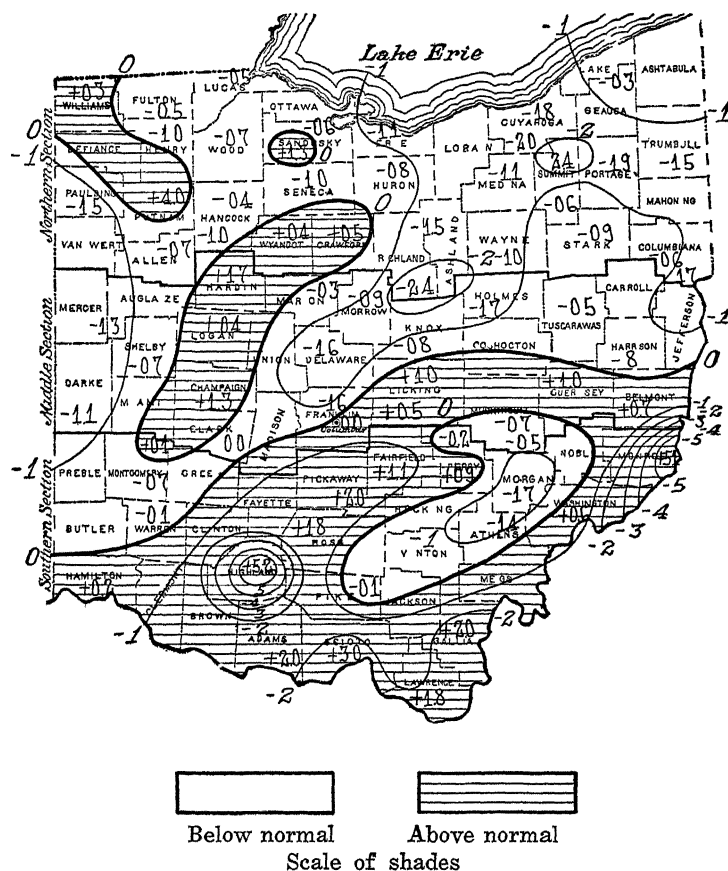


Fig. 36.—The average rainfall for the month was only 0.19 inch below the normal, but owing to the local character of the rains this hardly tells the whole story. In a large part of southern Ohio there was an excess, in some places quite marked, and in local areas quite sufficient for the needs of crops and pastures. On the other hand, some localities continued to suffer for lack of rain very severely.

Temperature departures, September, 1916

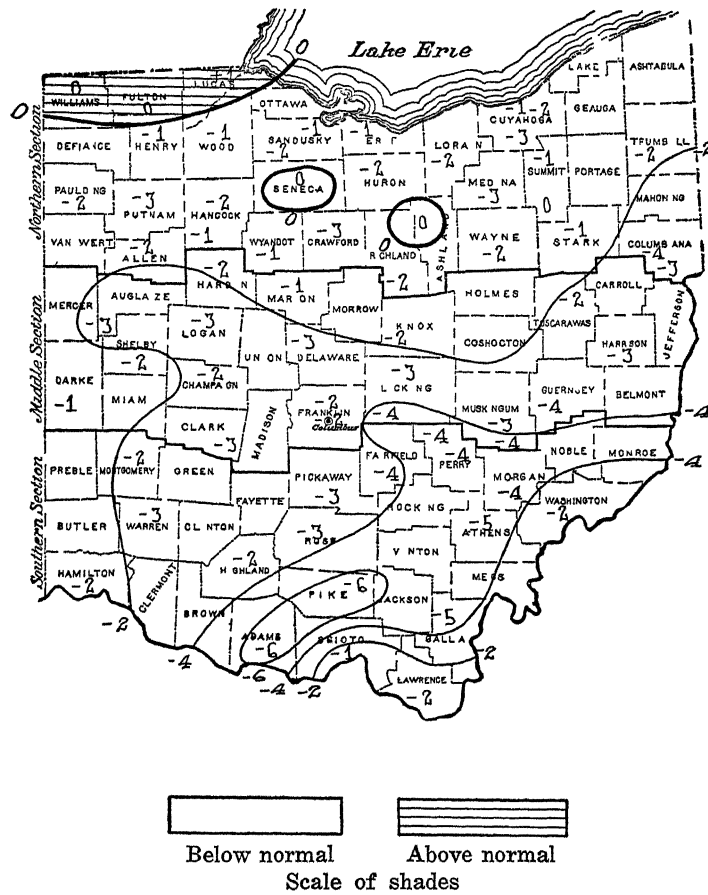


Fig. 38.—The average temperature for the month was 2.3° below the State normal. During the first half of the month the temperatures were generally slightly above normal; during the second half, below. The deficiency was greatest in southern sections. Killing frosts occurred at many stations on the 19th and at others on the 30th.

Precipitation, September, 1916

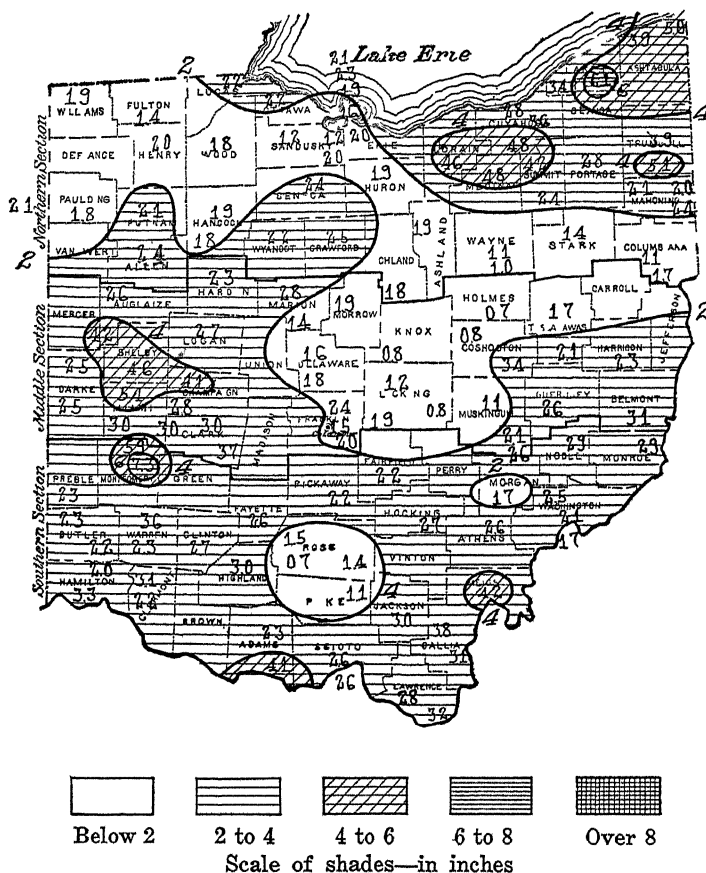


Fig. 39.—The average rainfall for the entire State was 2.56 inches, but the station totals ranged from 0.68 inch at Roxabell to 7.27 inches at Dayton (2). The largest 24-hour fall reported was 4.85 inches at Dayton (2) on the 5th-6th. The number of days with rain (0.01 or more) was 8. The rains were scattered pretty well through the month but were more or less local in character and were hardly sufficient to bring general relief from the drouth of the few months preceding.

Precipitation departures, September, 1916

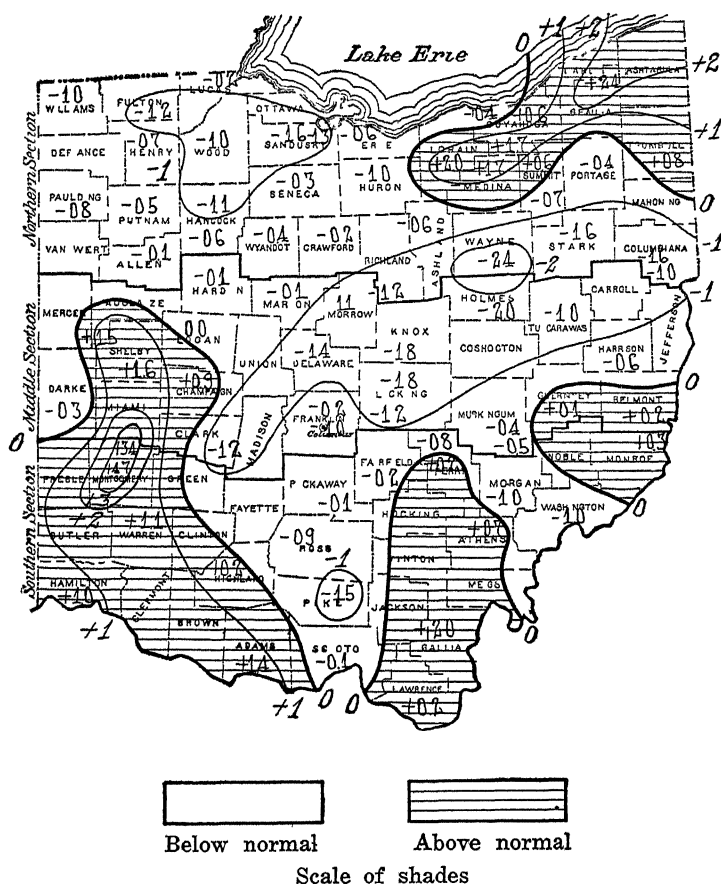


Fig. 40.—The rainfall for the month just averaged 0.16 inch below the normal for the State. In some portions of the southern division there was an excess; in some places, as in the upper Miami Valley, the excess was quite marked. Weather conditions were highly favorable for outdoor work.

Temperature departures, October, 1916



Fig. 42.—The mean temperature for the month was only 0.2° below the normal for the State. This was a month of favorable weather to all outside work. There were two warm and two cool waves, both of moderate intensity.

Snowfall, October, 1916



Fig. 45.—As indicated on the map the snowfall of the month was very light, there being no amount reported greater than a "trace"—an amount too small to measure—and this was limited largely to the northwestern portion of the State.

Precipitation, November, 1916

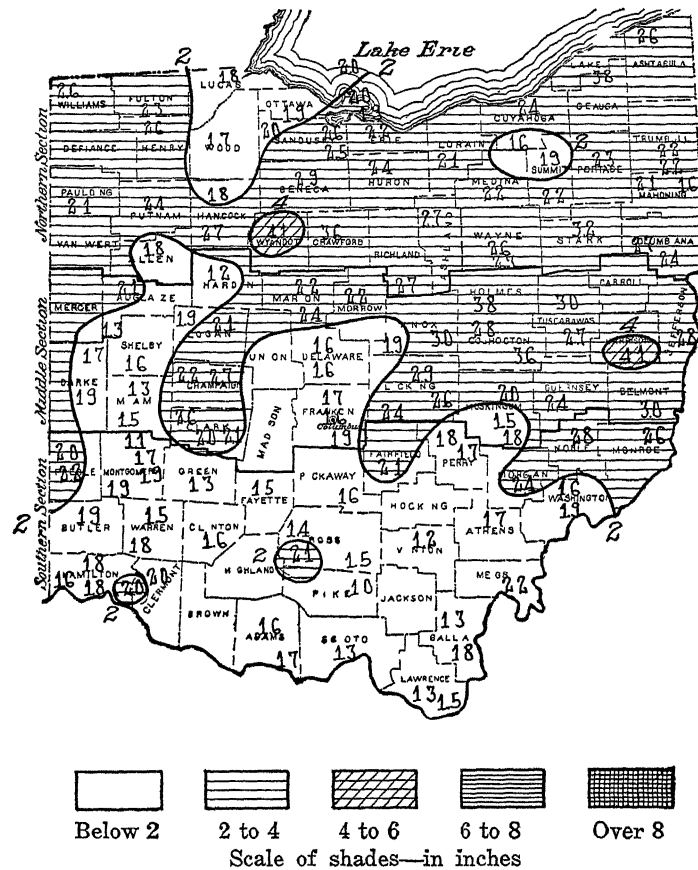


Fig. 48.—The average precipitation for the month for the whole State was 2.11 inches and the station totals ranged from 1.05 inches at Waverly to 4.10 inches at Upper Sandusky. The greatest 24-hour fall was 1.70 at Bucyrus on the 4th. Precipitation was quite general over the State on the 4th, 9th, 14th, 23d, 24th, 28th and 29th, and in the northern division on the 13th.

Snowfall, November, 1916



Fig. 50.—The average snowfall for the month for the entire State was 1.4 inches, but as shown by the map above there was no snow of consequence except in the extreme northeast in the counties bordering on Lake Erie. The station at Hillhouse reported the unusual amount of 28.0 inches.

Mean temperature, December, 1916



Fig. 51.—The monthly mean temperature for the State was 29.1° , and the station averages ranged from 24.6° at Wauseon to 35.2° at Ironton. The highest temperature for the month, 72° , was reported from Ironton on the 8th and from Portsmouth on the 4th, and the lowest, -15° , from Peebles on the 19th. A cold wave of considerable intensity overspread the State on the 13th and remained more or less persistent through the 23d, during the greater portion of which period the prevailing temperatures were from 15° to 20° , or more, below the seasonal average and minima below zero were recorded at nearly all stations in the State.

Temperature departures, December, 1916

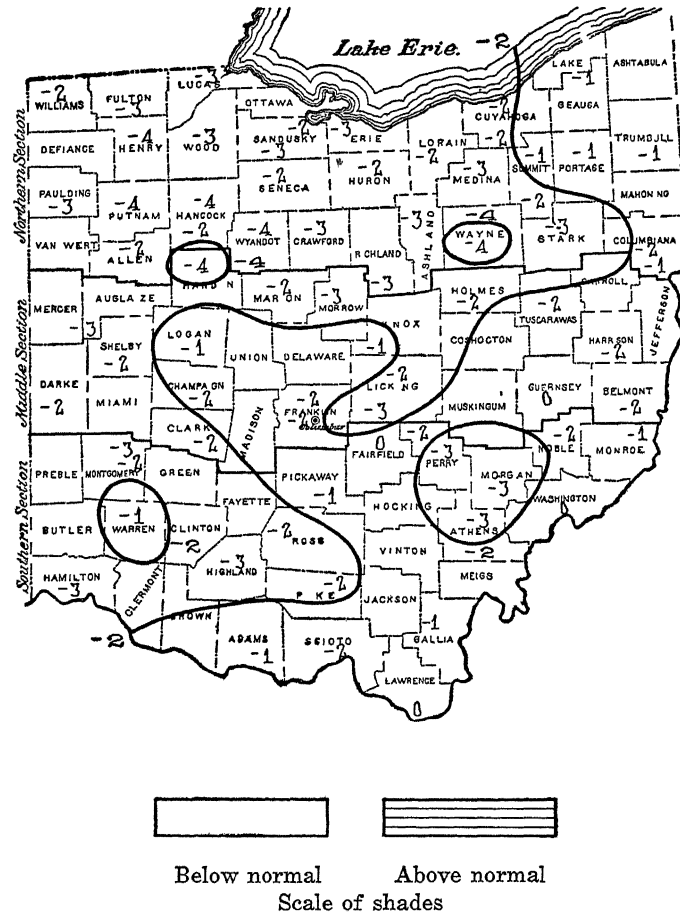


Fig. 52.—The temperature averaged 2.1° below the normal for the State as a whole. This deficiency though general over the State was not pronounced in any part or at individual stations. During the 11-day period from the 13th to the 23d the departures were most decided.

Precipitation, December, 1916

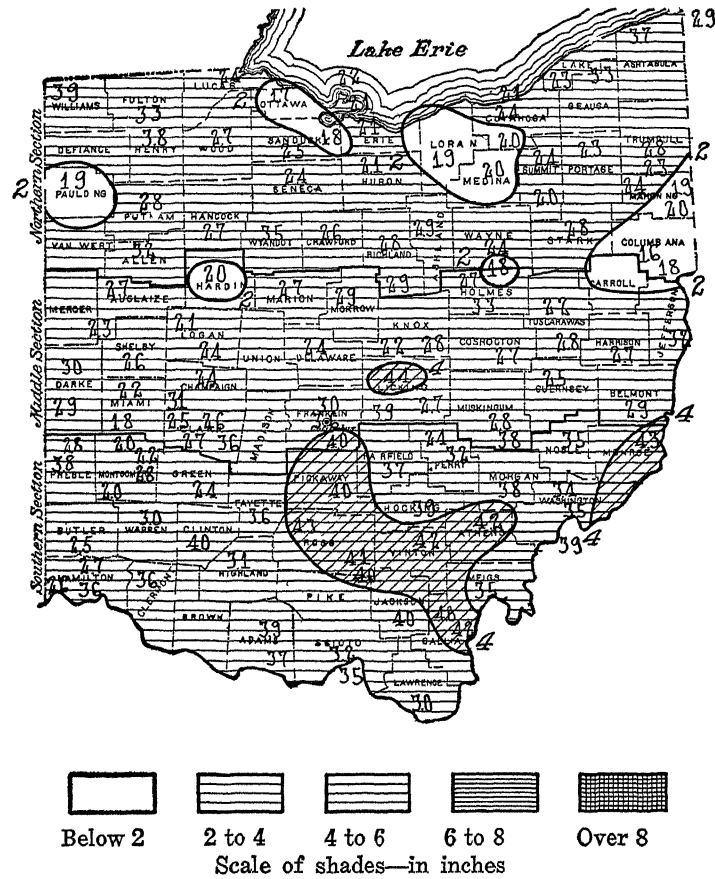


Fig. 53.—The precipitation for the month averaged 2.89 inches for the State as a whole, the station amounts ranging from 1.59 inches at Green Hill to 4.33 inches at Clarion. The largest 24-hour fall was 2 inches at Frankfort on the 27th. Precipitation occurred almost daily, but the amounts were generally light.

Precipitation departures, December, 1916

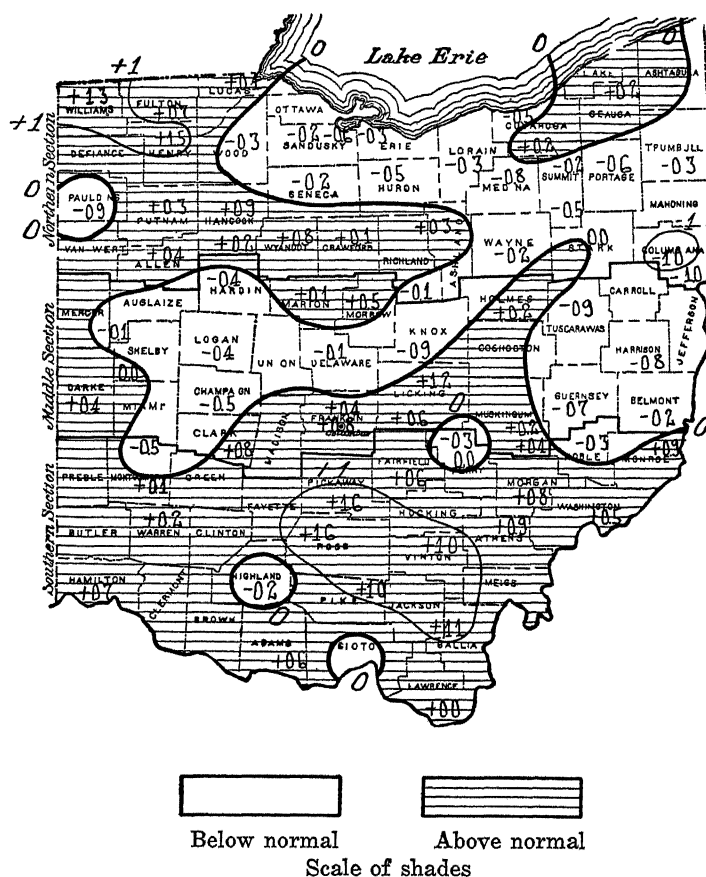


Fig. 54.—The average precipitation for the State was only 0.11 inch above the normal. This excess was, as a rule, small, and occurred in southern and western counties. There was a slight deficiency in northeastern counties.

Snowfall, December, 1916

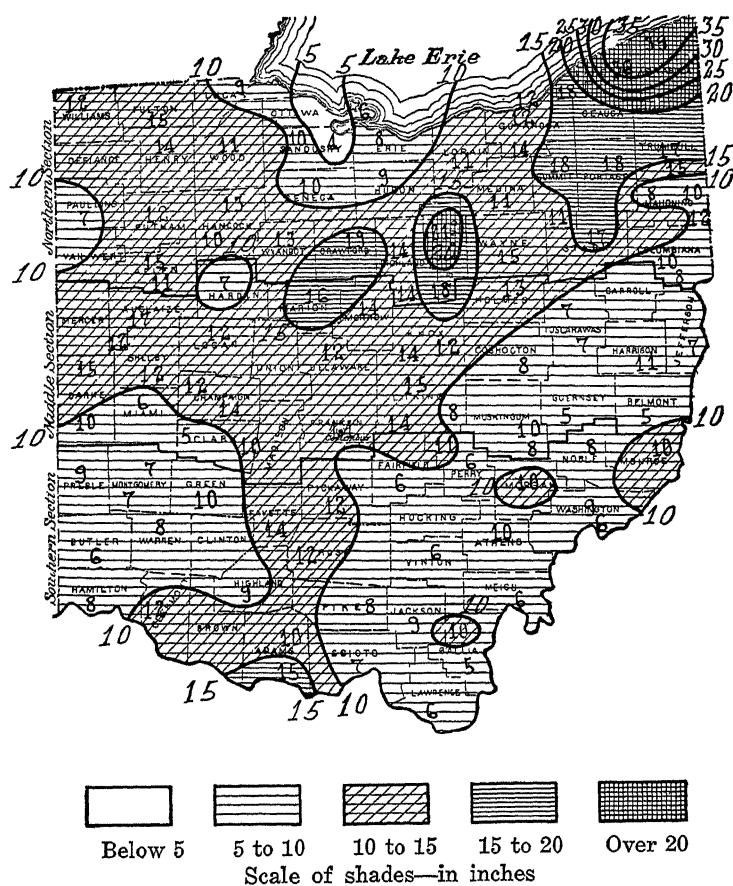


Fig. 55.—The average snowfall for the month for the State as a whole was 11.3 inches and the greatest local amount for the month was 39.0 inches at Geneva. The young wheat was well protected by a substantial snow covering during the period of severe temperatures.

Annual mean temperatures, 1916

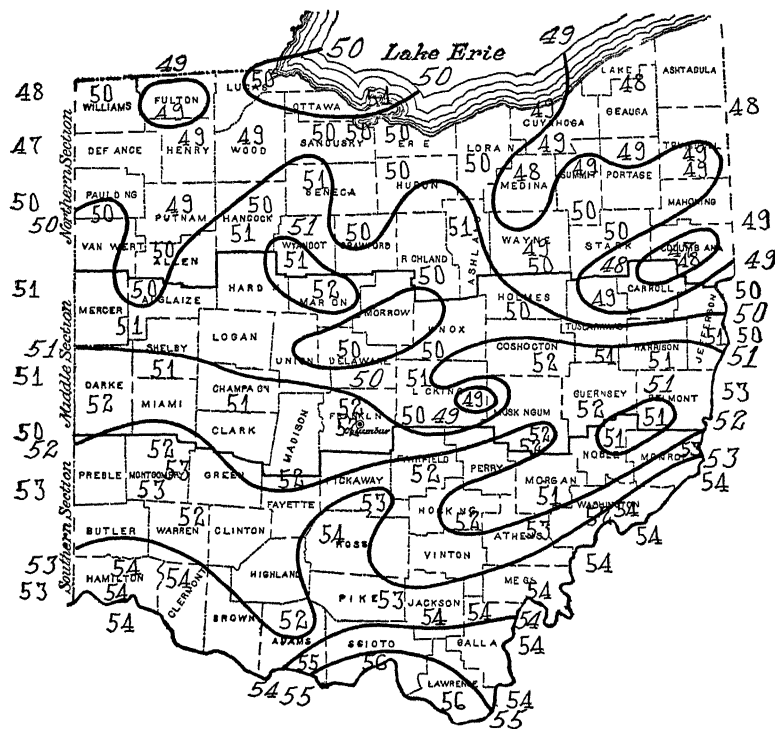


Fig. 56.—The annual mean temperature for the northern division was 49.6°; for the middle, 50.8°; for the southern, 53.0°; and for the State, 51.0°. The highest annual station mean was 56.0° at Ironton and the lowest 47.3° at Green Hill. The highest temperature recorded in the State during the year was 104° at Norwalk on August 21; the lowest, -18° at Summerfield on February 14, showing an extreme range of 122°.

Annual temperature departures, 1916

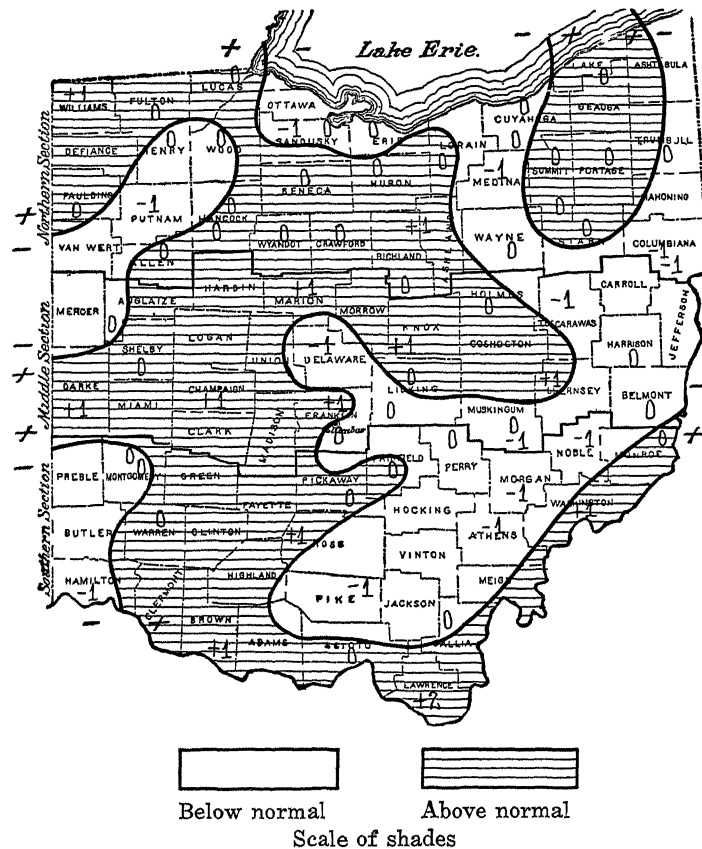


Fig. 57.—Singularly, the temperature averaged for the year exactly normal not only for the State as a whole but for each of the three divisions—northern, middle and southern. January was a notably warm month and March and June were remarkably cool months.

Annual precipitation, 1916

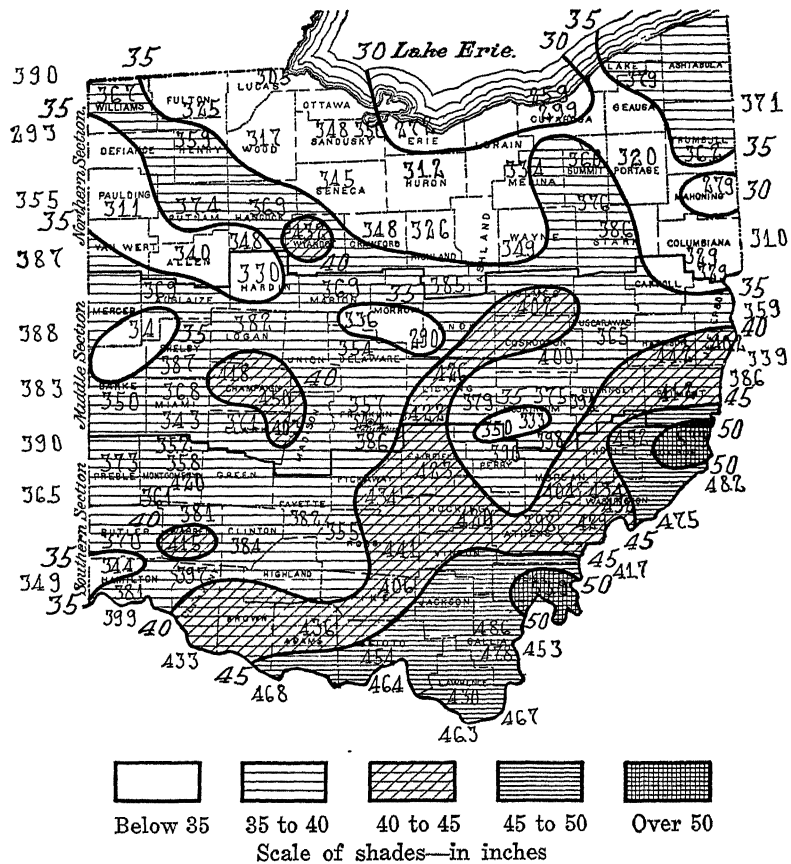


Fig. 58.—The average precipitation for the year in the northern division was 33.60 inches; in the middle division, 37.03 inches; in the southern division, 41.40 inches; and for the State, 37.34 inches. Syracuse recorded the largest amount for an individual station, namely, 53.93 inches, and Cleveland (1) the smallest amount, namely, 25.94 inches. Drouthy conditions were more or less persistent and in many localities very severe during the months of July, August, September and October. The average number of days with precipitation (0.01 inch or more) was 119.

Annual precipitation departures, 1916

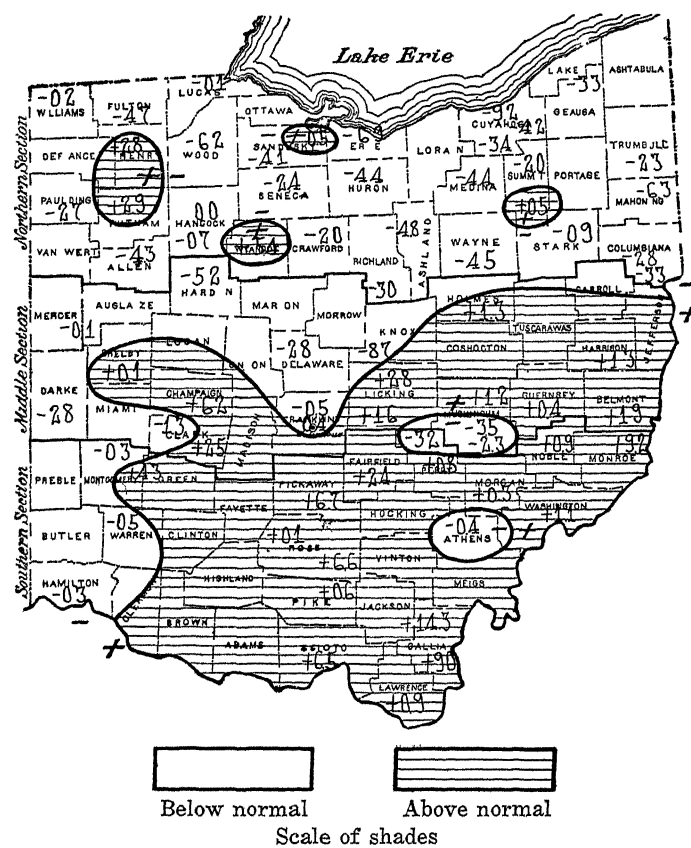


Fig. 59.—For the State as a whole the precipitation for the year was 0.75 inch below the normal. The deficiency was quite marked in the northern division, but in the southern division there was an excess.

Annual snowfall, 1916

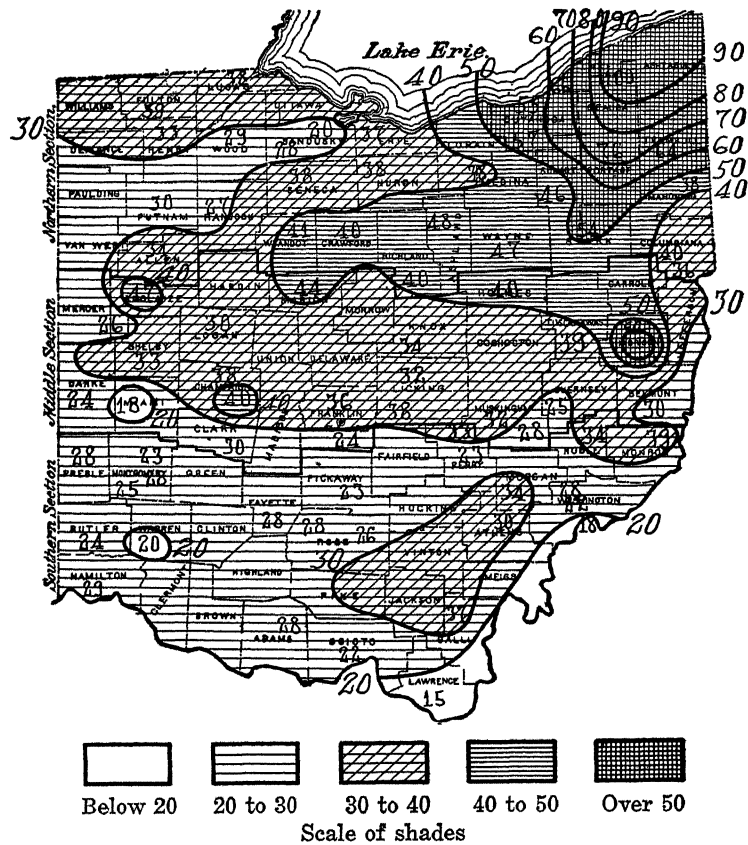


Fig. 60.—The average snowfall for the year for the State was 35.2 inches; the largest amount recorded at any one station was 99.9 inches at Hillhouse; and the largest monthly amount was 39.0 at Geneva in December.

Dates of last killing frost in spring, 1916



Fig. 61.—The map above shows the dates on which the last killing frost occurred in the spring of 1916 at the different stations in the State. The heavy dotted lines show the average dates of the last killing frost in spring.

Dates of first killing frost in autumn, 1916



Fig. 62.—The heavy dotted lines on the map above show the average dates on which the first killing frosts occur in the fall and are entered thereon as basis for comparison. Note that the frosts in the fall of 1916 came much ahead of time except in Cuyahoga county near the Lake and in the extreme southwest.

Length of growing season, 1916

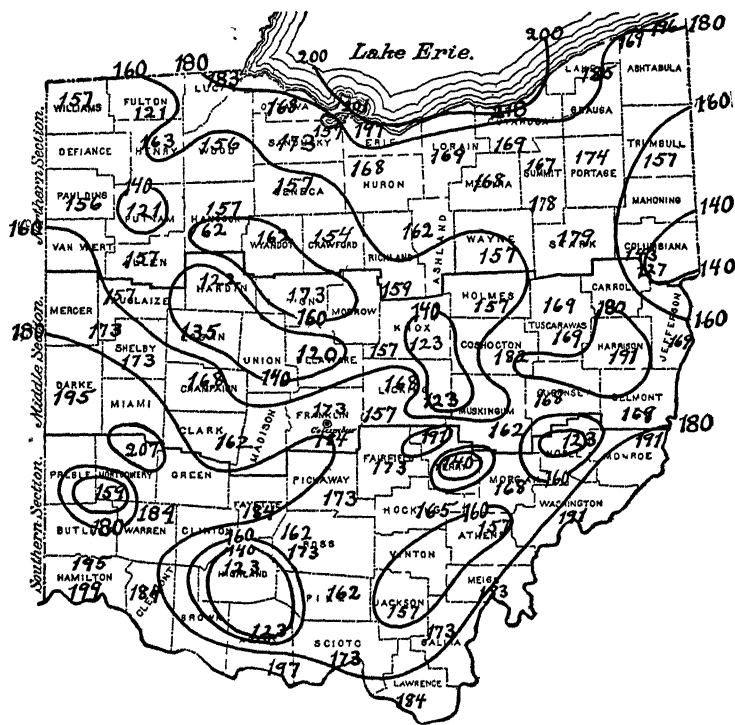


Fig. 63.—The “growing season” is the period of time between the last killing frost (or freezing temperature) in the spring and the first killing frost (or freezing temperature) in the autumn. This period has quite a range in the State, the longest growing season (about 200 days) being along the lake shore and in the extreme southern counties, and in the Miami Valley; the shortest (120 to 160 days) in the interior counties, especially along the divide.

CLIMATOLOGICAL DATA FOR OHIO FOR 1916

	Temperature								Number of days				Precipitation		Wind
	Mean	Highest	Date	Lowest	Date	Range	Greatest daily range	Date	Clear	Partly cloudy	Cloudy	Rainfall 0.01 inch or more	Monthly precipitation	Monthly snowfall	
January.....	35.5	75	27	—8	17	83	56	13	8	7	16	0.14	5.07	2.0	S. W.
February.....	26.5	69	22	—18	14	87	49	22	7	8	14	9	1.83	8.4	N. W.
March.....	34.7	87	25	—10	18	97	50	25	11	8	12	11	4.15	8.8	N. W.
April.....	49.3	89	20	18	7	71	45	30	8	9	13	11	2.35	3.3	N. W.
May.....	61.8	95	27	29	*19	66	47	10	11	11	9	13	4.27	T	S. W.
June.....	64.7	94	30	33	1	61	44	1	12	11	7	13	4.86	.....	S. W.
July.....	76.9	103	27	45	*4	58	49	7	18	10	3	5	1.92	.....	N. E.
August.....	74.4	104	21	39	29	65	44	31	17	11	3	8	3.11	.....	S. W.
September.....	63.7	101	7	27	*19	74	54	17	16	9	5	8	2.56	.....	S. W.
October.....	53.2	93	*6	22	*26	71	55	4	18	5	8	7	2.12	T	S. W.
November.....	42.6	80	*7	5	15	75	49	19	15	6	9	7	2.11	1.4	S. W.
December.....	29.1	72	*4	—15	19	87	47	19	10	7	14	13	2.89	11.3	S. W.
Total or average.....	51.0	104	Aug. 21	—18	Feb. 14	122	56	Jan. 13	151	102	113	119	37.24	35.2	S. W.

*On other dates also.

METEOROLOGICAL SUMMARY

C. A. PATTON

EXPLANATION OF TABLES

The following tables contain statistics of temperature, rainfall, etc., for the year, and are compiled from data obtained from daily observations. T stands for "trace"—less than 0.01 inch of rainfall. Temperature is given in degrees Fahrenheit.

Table I shows the daily rainfall at the Experiment Station at Wooster during the year in inches and hundredths.

Table II shows the daily mean temperature for each day of 1916 and the monthly mean temperature with the 29-year average.

Table III gives the monthly mean temperature at the Station with the 29-year average for the same.

Table IV gives the monthly mean rainfall at the Station with the 29-year average for the same.

Table V gives the monthly mean temperature for the State for 1916 with the 29-year average.

Table VI gives the monthly mean rainfall for 1916 with the 29-year average for the State.

Table VII gives the monthly mean temperature and rainfall for the Station and State for 1916 with the 29-year average.

Table VIII contains the mean temperature, the highest and lowest temperatures with the range of temperature for each month; the number of clear, partly cloudy and cloudy days; the rainfall, snowfall and prevailing direction of wind, for both the Station and State for 1916.

Table IX contains the principal points of interest on temperature, rainfall, and state of weather at the Station and for the State during the year, and a grand summary for 29 years.

Table X gives the date of the last killing frost in the spring, and the first killing frost in autumn, also the number of times the mercury fell below zero in each winter month since 1894.

Table XI gives the highest and lowest temperature for each month during the last 29 years for both the Station and State.

Table XII gives the total and average precipitation at the different district experiment farms.

TABLE I.—DAILY RAINFALL AND MELTED SNOW FOR 1916 AT
THE EXPERIMENT STATION

Date	January	February	March	April	May	June	July	August	September	October	November	December	Date
1.....	1.30	.....	.....	0.05	.....	.....	0.20	0.36	0.06	.....	.....	.....	1
2.....	.32	.....	0.20	.....	T	0.01	.69	.....	.....	.....	.....	.....	2
3.....	T	T	.....	.02	0.23	.35	.....	.12	.....	.....	0.65	0.03	3
4.....	.....	T	.....	.....	T	.....	.....	T	.....	.....	.....	.22	4
5.....	.30	0.05	.....	.....	T	.30	.....	.....	.....	.....	.....	.....	5
6.....	T	.50	.50	.....	T	.13	.....	.....	.03	.....	.....	.....	6
7.....	.....	T	.46	.....	.70	.81	.....	.27	.....	.....	.....	T	7
8.....	.....	T	.20	.60	.....	.08	.....	.33	.10	0.09	.....	.22	8
9.....	.....	.....	.....	.02	.....	.40	.....	.....	.21	.02	.40	.....	9
10.....	.28	.....	.05	.....	.....	.33	.....	.10	.....	.....	.....	.....	10
11.....	T	.....	.....	.....	.12	.....	.....	.....	.....	.....	.....	.10	11
12.....	.44	.32	.....	.....	.....	.....	.07	.....	.....	.21	.....	.05	12
13.....	.60	T	.....	.20	.01	.....	.34	.....	.....	.05	.40	.20	13
14.....	T	.....	.02	.38	.01	.....	.....	.....	.06	.....	T	.10	14
15.....	.....	.....	.80	.....	.08	.67	.66	.31	.....	.10	.....	.....	15
16.....	.05	.....	T	T	.30	.27	.17	.....	.....	.02	.02	T	16
17.....	.....	.....	.....	.27	T	.37	T	.....	T	.....	T	.....	17
18.....	T	.16	.....	.....	.....	.50	.....	.....	.....	1.04	.....	T	18
19.....	.....	T	.....	.....	.....	.04	.....	T	.....	.20	.....	.10	19
20.....	.10	.15	.....	.48	.....	.65	.....	.....	.....	.16	.....	.20	20
21.....	.22	.....	.05	.03	.....	.11	.....	.....	.02	.....	.....	.70	21
22.....	.08	.....	1.50	.06	.47	.....	.....	.02	.33	.....	.45	.....	22
23.....	.....	.15	T	.02	.....	.....	.....	.....	.....	.....	.30	.....	23
24.....	.....	.15	.....	T	.....	.02	.....	.....	.....	.....	.05	T	24
25.....	.....	.10	.....	.04	.17	.....	.08	.01	.....	.09	.....	.....	25
26.....	.....	.05	.02	.23	.07	.....	.....	.50	.....	.....	.....	.50	26
27.....	.04	.10	.66	.52	.68	.....	.....	.24	.06	.....	T	.01	27
28.....	.05	T	.26	T	.09	.....	.....	.....	.18	.....	.26	.....	28
29.....	.20	.....	.....	.....	.01	.01	.....	.....	.02	.....	.05	T	29
30.....	.55	.....	.....	.....	.01	.....	.....	.....	.....	.....	.....	.....	30
31.....	.45	.....	.....	.....	.....	.....	.....	.....	.....	.05	.....	.....	31
Total.....	4.98	1.73	4.72	2.92	2.95	5.05	2.21	2.26	1.07	2.03	.258	2.43	
Average. ....	.161	.060	.152	.097	.095	.168	.071	.073	.035	.065	.086	.078	

TABLE II.—MEAN TEMPERATURE FOR EACH DAY OF 1916 AT
THE EXPERIMENT STATION

Date	January	February	March	April	May	June	July	August	September	October	November	December	Date
1.....	38.0	30.0	21.5	52.0	63.5	55.5	71.5	72.5	66.0	47.5	48.0	38.0	1
2.....	46.5	19.5	26.5	39.5	56.5	67.5	64.5	71.5	66.5	52.5	49.0	39.0	2
3.....	31.5	18.5	12.5	39.0	52.5	64.5	66.0	77.0	57.0	55.5	43.0	40.0	3
4.....	30.5	18.5	16.0	47.0	49.5	60.0	66.0	77.5	66.5	59.0	49.0	46.0	4
5.....	44.5	29.5	22.0	43.0	57.5	62.5	66.5	80.5	76.0	60.5	48.0	52.5	5
6.....	30.0	27.5	32.5	37.0	57.0	58.5	68.0	80.0	73.0	63.0	45.0	40.0	6
7.....	21.5	17.0	41.0	32.5	66.0	61.5	69.5	82.0	79.5	60.0	50.5	41.5	7
8.....	25.5	7.0	32.5	35.5	64.5	62.0	72.0	78.0	72.0	65.5	59.0	48.0	8
9.....	26.0	24.5	19.0	35.0	58.5	59.0	77.0	69.0	63.0	61.0	54.5	29.0	9
10.....	36.5	25.0	28.0	39.0	61.0	55.0	76.5	69.0	69.5	43.0	47.5	28.5	10
11.....	37.0	36.5	22.5	47.5	62.5	57.5	78.5	73.5	72.0	43.5	40.0	29.5	11
12.....	50.0	35.5	35.5	49.0	52.5	60.0	78.0	74.5	71.5	48.5	40.0	27.0	12
13.....	38.5	16.0	41.0	58.5	57.5	67.0	77.0	65.0	65.5	47.5	46.0	20.5	13
14.....	26.0	13.0	37.0	48.5	61.0	68.0	78.5	60.5	61.0	45.0	32.5	12.0	14
15.....	17.0	21.0	19.0	44.5	71.5	67.5	72.0	66.0	51.0	48.0	20.5	9.0	15
16.....	22.0	27.5	16.5	59.5	66.0	65.5	75.0	71.5	56.5	50.5	24.5	11.0	16
17.....	5.0	27.5	15.0	51.5	46.0	63.5	76.5	75.0	50.5	45.0	27.0	10.5	17
18.....	8.5	30.0	13.5	49.5	45.0	66.0	78.0	78.5	50.5	43.0	30.5	5.5	18
19.....	15.5	16.0	24.0	49.0	50.0	60.5	78.0	79.5	49.5	50.0	38.0	13.0	19
20.....	32.5	31.0	19.5	61.5	49.5	59.5	75.5	80.0	56.0	55.5	40.5	18.5	20
21.....	49.5	18.5	37.5	62.0	56.0	51.5	70.5	81.0	60.5	36.5	36.0	28.0	21
22.....	46.5	38.5	33.5	49.0	59.0	58.0	75.5	82.0	57.0	43.0	38.5	22.0	22
23.....	35.5	41.5	25.5	41.0	69.5	68.0	77.0	67.5	54.0	45.5	41.5	16.0	23
24.....	39.5	31.0	40.5	44.5	67.0	69.5	76.5	64.0	55.0	46.0	32.5	18.5	24
25.....	47.5	29.5	57.0	44.5	69.5	62.0	77.5	69.5	55.5	49.5	24.5	22.0	25
26.....	49.5	26.5	58.5	40.0	72.0	71.5	80.5	71.0	64.5	43.5	32.0	29.5	26
27.....	58.0	20.0	56.0	46.0	73.0	67.5	79.0	63.5	68.5	45.5	45.0	33.0	27
28.....	48.5	17.5	50.0	49.5	69.0	63.5	78.5	63.5	67.5	45.0	45.0	29.0	28
29.....	37.5	22.0	44.5	51.0	66.0	71.5	79.0	59.5	50.0	51.5	48.5	17.5	29
30.....	50.5	.....	45.0	56.5	61.5	63.5	82.0	65.0	44.0	50.5	36.5	17.5	30
31.....	50.0	.....	50.0	.....	55.5	.....	72.5	69.5	.....	52.0	.....	20.5	31
Monthly mean.	35.3	24.7	32.0	46.8	60.2	62.9	74.6	72.2	62.1	50.1	40.4	26.2	
29-yr. average.	27.7	26.3	36.8	48.3	58.5	67.3	71.4	69.5	63.9	51.4	40.2	30.2	

TABLE III.—MONTHLY MEAN TEMPERATURE FOR 29 YEARS (Degrees)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
1888.....	23.0	28.8	31.7	46.3	57.7	69.8	70.1	67.8	57.1	44.9	40.7	31.4	47.4	1888
1889.....	31.1	22.9	38.7	47.1	57.8	64.5	70.0	66.0	60.8	45.3	39.3	40.7	48.6	1889
1890.....	36.0	36.6	30.9	48.4	56.0	69.8	70.5	65.8	59.6	50.0	41.3	28.8	49.5	1890
1891.....	30.0	34.0	32.0	49.0	52.0	68.0	68.0	71.0	68.0	49.0	38.0	37.0	49.7	1891
1892.....	22.0	33.0	33.0	47.0	57.0	70.0	70.0	69.0	61.0	49.0	38.0	28.0	48.0	1892
1893.....	18.0	28.0	38.8	50.1	57.6	69.3	72.0	67.9	63.2	52.3	37.7	30.9	48.7	1893
1894.....	32.8	26.7	43.5	50.5	57.5	67.9	71.4	69.2	66.1	52.3	36.5	32.9	50.6	1894
1895.....	21.9	17.9	32.4	49.5	59.4	69.9	68.6	70.9	66.5	44.2	40.4	32.8	47.8	1895
1896.....	27.9	29.2	29.8	54.6	64.5	65.6	70.2	68.5	60.6	45.8	44.4	30.6	49.3	1896
1897.....	24.0	30.0	39.3	47.2	53.4	64.3	73.2	67.0	66.7	55.9	40.7	31.8	49.4	1897
1898.....	31.6	27.4	43.3	45.3	58.2	68.7	74.5	71.1	66.2	52.6	38.4	27.9	50.4	1898
1899.....	26.6	21.3	35.0	52.1	60.0	69.4	70.0	71.0	61.6	55.0	43.2	29.0	49.5	1899
1900.....	30.2	25.0	31.8	47.8	61.5	68.5	72.6	74.0	67.1	58.9	40.6	30.7	50.7	1900
1901.....	28.3	20.0	39.1	45.2	57.9	69.1	75.9	71.6	63.3	51.7	36.6	26.1	48.7	1901
1902.....	26.3	21.4	41.2	46.2	61.2	65.6	73.0	66.4	62.7	53.9	47.3	28.7	49.5	1902
1903.....	24.4	29.0	45.7	48.0	62.2	63.0	71.8	68.8	64.4	58.2	36.8	21.7	49.1	1903
1904.....	18.6	20.5	37.6	42.8	59.4	67.0	69.8	66.7	64.2	50.4	39.6	28.1	47.1	1904
1905.....	22.6	19.8	41.2	46.8	59.2	68.0	71.6	70.0	63.8	51.0	38.3	33.1	48.8	1905
1906.....	35.9	25.8	30.2	51.9	59.9	68.8	71.0	74.2	67.7	51.4	40.4	31.2	50.7	1906
1907.....	30.8	24.6	44.9	41.7	52.8	64.6	69.9	68.6	65.0	47.4	38.5	32.1	48.4	1907
1908.....	28.7	26.8	43.1	50.1	62.2	68.1	72.4	69.0	66.4	53.0	41.0	31.7	51.0	1908
1909.....	31.7	33.6	35.9	48.4	57.9	69.3	69.6	70.4	62.2	47.8	48.3	25.2	50.0	1909
1910.....	26.7	23.8	47.2	50.2	54.7	64.3	72.6	70.9	65.3	54.9	34.8	24.4	49.2	1910
1911.....	31.3	33.8	35.0	46.5	63.5	68.9	71.7	70.6	65.2	51.8	36.7	34.7	50.8	1911
1912.....	16.6	20.5	30.3	50.5	61.1	64.6	71.6	67.1	65.6	52.4	41.0	33.1	47.8	1912
1913.....	34.2	25.1	38.5	48.9	58.0	67.4	72.4	71.5	62.5	52.2	42.4	33.7	50.6	1913
1914.....	31.9	20.4	34.5	48.4	59.8	68.4	71.0	71.5	62.2	55.8	40.9	25.9	49.2	1914
1915.....	24.4	33.2	31.2	53.2	55.0	64.8	69.2	66.1	65.6	53.4	42.4	28.6	48.9	1915
1916.....	35.3	24.7	32.0	46.8	60.2	62.9	74.6	72.2	62.1	50.1	40.4	26.2	48.9	1916
Average...	27.7	26.3	36.8	48.3	58.5	67.3	71.4	69.5	63.9	51.4	40.2	30.2	49.3	

TABLE IV.—MONTHLY RAINFALL FOR 29 YEARS AT WOOSTER (Inches)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual	Date
1888.....	3.34	2.43	3.34	2.48	3.82	2.31	4.54	4.35	1.92	3.18	4.95	1.39	38.05	1888
1889.....	4.33	2.42	2.13	1.58	2.97	4.86	6.73	1.98	4.05	1.36	3.53	3.93	39.87	1889
1890.....	4.71	6.20	4.37	3.10	6.37	6.92	2.67	4.66	5.13	7.45	2.62	1.74	53.94	1890
1891.....	2.91	4.83	3.71	1.66	2.24	7.13	3.24	1.85	.93	1.33	5.73	2.92	38.48	1891
1892.....	2.67	2.67	3.38	2.44	7.69	7.89	4.73	2.69	3.20	.37	2.06	2.74	41.53	1892
1893.....	4.01	6.33	1.89	5.66	6.28	2.51	1.38	1.53	1.85	5.15	2.49	1.50	40.58	1893
1894.....	2.19	3.37	2.36	1.74	4.41	2.23	1.38	.76	4.25	2.53	2.41	3.15	30.78	1894
1895.....	3.97	.41	1.98	1.69	1.38	4.20	2.19	2.30	3.92	1.15	4.21	3.51	30.91	1895
1896.....	1.73	2.27	3.67	3.34	3.41	3.98	8.15	1.96	5.16	.71	1.78	3.04	39.10	1896
1897.....	3.42	2.64	2.81	2.75	4.97	2.98	3.89	3.86	.29	.89	5.76	2.50	36.76	1897
1898.....	4.10	2.27	6.44	2.56	4.60	2.70	6.79	5.53	2.15	4.28	4.14	2.29	47.85	1898
1899.....	3.29	1.64	3.95	1.28	4.42	1.95	3.73	.53	5.56	2.21	1.59	2.78	32.93	1899
1900.....	2.78	2.74	2.25	1.70	2.23	3.71	5.65	5.97	2.19	2.10	4.30	.99	36.61	1900
1901.....	1.58	1.20	3.09	2.46	4.32	4.82	3.32	3.58	5.64	.79	1.62	3.47	35.89	1901
1902.....	.63	.83	2.99	1.55	2.57	5.55	5.26	1.87	3.49	1.52	2.62	4.07	32.95	1902
1903.....	3.54	3.69	3.29	4.55	1.59	3.69	4.61	6.58	2.07	2.63	2.25	1.95	40.44	1903
1904.....	5.27	3.90	6.22	6.59	4.45	1.67	4.93	2.03	2.27	.87	.40	2.68	41.28	1904
1905.....	1.83	1.36	2.61	2.51	5.97	7.50	5.14	4.47	5.10	2.32	2.04	2.08	42.93	1905
1906.....	1.93	1.06	3.57	2.27	2.98	3.81	4.93	7.38	5.16	3.55	2.39	3.79	42.82	1906
1907.....	6.92	1.09	5.80	2.69	3.48	3.81	3.96	2.04	3.13	2.34	1.33	3.41	40.00	1907
1908.....	1.96	3.89	5.02	3.64	4.56	2.17	3.44	3.17	.73	1.22	1.09	3.05	33.94	1908
1909.....	2.95	5.22	3.02	3.92	4.06	6.44	4.05	5.21	1.73	2.16	2.91	2.55	44.22	1909
1910.....	5.29	4.41	.54	3.22	4.87	2.57	1.12	.95	2.59	5.24	2.36	2.29	35.45	1910
1911.....	4.13	2.25	3.26	3.71	2.45	3.78	3.36	5.19	6.53	5.45	2.50	4.54	47.15	1911
1912.....	2.30	1.58	3.77	5.58	5.65	2.21	7.46	7.32	4.41	2.18	1.79	2.35	46.70	1912
1913.....	7.86	2.43	11.84	3.66	3.04	.97	4.07	4.75	3.70	3.17	3.77	1.92	51.18	1913
1914.....	1.64	1.95	2.37	4.33	2.98	6.33	1.23	5.00	2.87	3.33	1.68	3.67	37.38	1914
1915.....	2.32	2.04	1.17	1.41	2.80	6.32	8.35	3.93	4.90	2.85	2.65	3.32	42.06	1915
1916.....	4.98	1.73	4.72	2.92	2.95	5.05	2.21	2.26	1.07	2.03	2.58	2.43	34.93	1916
Average..	3.41	2.72	3.64	3.00	3.91	4.14	4.22	3.58	3.31	2.56	2.74	2.76	39.89	

**TABLE V.—MONTHLY MEAN TEMPERATURE FOR 29 YEARS FOR
THE STATE (Degrees)**

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
1888.....	24.3	30.5	34.2	49.2	58.8	70.4	72.1	70.4	60.3	47.9	42.9	33.3	49.5	1888
1889.....	33.3	25.8	40.2	49.9	60.2	66.7	72.5	69.1	62.9	47.9	41.0	43.8	51.1	1889
1890.....	38.8	39.4	34.5	51.3	59.2	73.3	73.0	68.8	62.1	52.7	42.2	31.2	52.2	1890
1891.....	33.0	36.0	35.0	52.0	58.0	71.0	69.0	70.0	67.0	51.0	40.0	39.0	51.8	1891
1892.....	24.0	35.0	35.0	49.0	59.0	73.0	73.0	71.0	64.0	52.0	38.0	29.0	50.2	1892
1893.....	18.0	29.0	38.0	50.2	58.3	70.6	74.5	70.7	65.2	53.7	39.3	32.7	50.0	1893
1894.....	33.7	28.9	45.1	50.6	60.0	71.3	74.3	71.2	67.8	53.9	37.5	33.9	52.4	1894
1895.....	23.4	19.6	35.5	51.7	61.1	72.0	71.6	73.5	69.0	46.9	41.9	33.9	50.0	1895
1896.....	29.4	30.5	32.4	56.9	67.9	69.5	73.2	71.8	62.7	49.0	45.1	32.9	51.8	1896
1897.....	25.5	32.4	41.5	49.3	56.3	68.1	75.5	69.4	66.9	58.1	42.2	32.8	51.5	1897
1898.....	32.4	30.0	45.0	47.2	61.0	71.9	76.0	73.5	67.8	54.1	38.8	28.8	52.2	1898
1899.....	27.8	21.6	36.9	53.3	63.3	71.5	74.1	73.7	64.1	57.4	43.9	30.2	51.5	1899
1900.....	31.1	26.0	32.9	50.1	62.9	69.8	74.1	76.3	69.3	60.5	41.6	31.6	52.2	1900
1901.....	29.2	21.1	39.5	46.7	59.0	70.9	78.1	73.1	64.8	53.8	37.7	27.9	50.2	1901
1902.....	27.3	23.3	41.9	48.2	62.6	66.9	74.0	68.9	63.6	54.6	48.5	29.4	50.7	1902
1903.....	27.1	29.9	46.7	49.9	63.9	64.4	72.9	70.7	65.6	54.0	37.2	23.4	50.5	1903
1904.....	20.7	22.9	39.7	44.4	60.7	68.4	71.4	68.8	65.5	52.2	40.5	28.0	48.6	1904
1905.....	22.7	20.8	42.7	48.5	60.7	69.2	73.0	71.7	65.3	52.6	39.6	32.9	50.0	1905
1906.....	35.7	27.3	31.3	52.1	61.3	69.8	72.1	74.6	68.9	52.7	41.1	32.3	51.6	1906
1907.....	32.2	26.0	45.9	42.5	54.5	65.6	72.6	69.5	65.5	48.8	39.1	33.0	49.6	1907
1908.....	29.1	27.7	43.4	51.0	62.8	69.2	73.9	71.2	68.0	54.1	41.7	33.1	52.1	1908
1909.....	32.2	34.7	37.3	49.1	58.7	70.1	70.7	71.9	63.2	48.8	48.9	25.4	50.9	1909
1910.....	27.6	25.5	48.2	51.5	56.0	65.9	73.8	71.4	66.3	56.7	36.3	25.5	50.4	1910
1911.....	32.8	34.5	37.4	47.7	66.3	70.9	74.0	72.5	67.5	53.3	37.6	36.3	52.6	1911
1912.....	17.9	22.4	32.9	51.9	62.5	66.6	73.4	69.2	67.4	54.8	42.2	33.8	49.6	1912
1913.....	36.0	26.7	40.1	50.0	60.3	69.8	74.5	73.3	64.1	54.1	4.44	34.5	52.3	1913
1914.....	33.4	22.1	36.0	50.1	62.2	71.1	74.0	72.8	63.4	56.9	42.1	27.0	50.9	1914
1915.....	26.3	35.2	33.2	54.8	57.8	66.8	71.5	67.5	67.0	55.4	44.3	30.4	50.8	1915
1916.....	35.5	26.5	34.7	49.3	61.8	64.7	76.9	74.4	63.7	53.2	42.6	29.1	51.0	1916
Average...	29.0	28.0	38.5	49.3	60.6	69.3	73.4	71.4	65.5	53.1	41.3	31.6	51.0	

TABLE VI.—MONTHLY RAINFALL FOR 29 YEARS FOR THE
STATE (Inches)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Annual	Date
1888.....	3.65	1.74	3.55	1.99	3.77	3.41	4.40	5.16	2.27	3.98	4.25	1.47	39.64	1888
1889.....	3.13	1.35	1.38	1.79	3.71	4.13	4.19	1.50	3.62	1.78	4.02	2.81	33.41	1889
1890.....	4.94	5.25	5.29	3.45	5.52	4.50	1.99	4.66	5.56	4.27	2.53	2.37	50.33	1890
1891.....	2.82	4.91	4.19	2.13	2.20	4.82	3.82	3.07	1.50	1.76	5.00	2.39	38.61	1891
1892.....	2.11	3.03	2.86	3.32	6.32	5.61	3.80	2.99	2.36	.73	2.32	1.71	37.16	1892
1893.....	2.56	5.13	2.09	6.37	4.97	3.34	2.49	2.17	1.57	4.24	2.09	2.61	39.63	1893
1894.....	2.14	2.79	2.16	2.31	4.00	2.65	1.56	1.67	3.31	2.01	2.17	2.98	29.75	1894
1895.....	4.00	.69	1.59	2.11	1.80	2.47	2.00	2.96	1.66	1.22	4.11	3.85	28.46	1895
1896.....	1.67	2.21	3.34	2.78	2.67	4.81	8.11	3.38	5.13	1.20	2.63	1.65	39.58	1896
1897.....	1.93	3.64	5.17	3.27	3.93	2.85	4.65	2.72	.78	.64	6.62	2.39	38.59	1897
1898.....	5.25	2.32	6.23	2.38	4.10	2.86	3.98	4.50	2.56	3.72	3.17	2.71	43.78	1898
1899.....	3.01	2.11	4.64	1.61	4.32	2.94	4.17	1.82	2.68	2.14	1.72	3.16	34.32	1899
1900.....	2.37	3.46	2.35	1.89	2.40	3.01	4.62	3.68	1.76	1.89	4.15	1.24	32.82	1900
1901.....	1.70	1.24	2.66	3.40	3.96	4.44	2.72	3.33	2.86	.73	1.53	3.79	32.36	1901
1902.....	1.42	.88	2.76	2.21	3.09	7.48	4.69	1.67	4.55	2.28	2.60	3.95	37.58	1902
1903.....	2.36	4.95	3.51	4.01	2.82	4.02	3.67	3.20	1.52	2.62	2.10	2.07	36.85	1903
1904.....	3.85	2.69	5.67	3.53	3.79	2.88	4.13	2.74	1.95	1.50	.37	3.09	36.19	1904
1905.....	1.73	1.58	2.50	3.10	5.63	4.72	3.93	4.46	2.86	3.65	2.63	2.29	39.08	1905
1906.....	1.98	1.16	3.97	1.89	2.17	3.42	5.14	4.77	2.92	3.19	2.59	3.68	36.88	1906
1907.....	6.06	.85	5.55	2.74	3.47	4.57	5.36	2.48	3.92	2.76	1.93	3.16	42.85	1907
1908.....	1.82	4.10	5.43	3.71	4.72	2.51	4.08	2.59	.58	1.17	1.06	2.33	34.10	1908
1909.....	3.24	5.39	2.77	4.13	4.72	5.86	3.76	3.56	1.78	2.31	2.52	2.62	42.66	1909
1910.....	4.48	4.05	.26	3.49	3.80	2.66	3.17	1.58	4.05	4.19	1.89	2.41	36.03	1910
1911.....	3.90	1.95	2.33	4.35	1.69	3.92	2.40	5.39	4.87	4.99	2.91	3.93	42.63	1911
1912.....	2.12	2.08	4.17	4.47	3.12	3.17	5.70	4.08	3.11	2.44	1.10	2.26	37.82	1912
1913.....	7.01	1.94	8.40	3.35	3.53	1.87	5.20	2.52	2.37	3.36	3.52	1.68	44.75	1913
1914.....	2.30	3.04	2.42	4.01	3.11	3.14	2.19	5.08	1.41	3.42	1.53	3.77	35.42	1914
1915.....	3.40	1.96	1.44	1.42	3.99	4.36	6.32	4.52	4.51	2.39	2.68	3.84	40.83	1915
1916.....	5.07	1.83	4.15	2.35	4.27	4.86	1.92	3.11	2.56	2.12	2.11	2.89	37.24	1916
Average...	3.17	2.70	3.55	3.02	3.71	3.84	3.94	3.29	2.78	2.51	2.68	2.73	37.91	

TABLE VII.—MEAN TEMPERATURE AND RAINFALL AT THE EXPERIMENT STATION AND FOR THE STATE, 1916, AND FOR 29 YEARS

	January	February	March	April	May	June	July	August	September	October	November	December	Year
Mean temperature at the Station, 1916.....degrees	35.3	24.7	32.0	46.8	60.2	62.9	74.6	72.2	62.1	50.1	40.4	26.2	48.9
Twenty-nine-year average temperature at the Station...do..	27.7	26.3	36.8	48.3	58.5	67.3	71.4	69.5	63.9	51.4	40.2	30.2	49.3
Mean temperature for the State, 1916.....do..	35.5	26.5	34.7	49.3	61.8	64.7	76.9	74.4	63.7	53.2	42.6	29.1	51.0
Twenty-nine-year average temperature for the State...do..	29.0	28.0	38.5	49.3	60.6	69.3	73.4	71.4	65.5	53.1	41.3	31.6	51.0
Rainfall at the Station, 1916.....inches	4.98	1.73	4.72	2.92	2.95	5.05	2.21	2.26	1.07	2.03	2.58	2.43	34.93
Twenty-nine-year average rainfall at the Station.....do..	3.41	2.72	3.64	3.00	3.91	4.15	4.23	3.58	3.31	2.56	2.74	2.76	39.90
Rainfall for the State, 1916.....do..	5.07	1.83	4.15	2.35	4.27	4.86	1.92	3.11	2.56	2.12	2.11	2.89	37.24
Twenty-nine-year average rainfall for the State.....do..	3.17	2.70	3.55	3.02	3.71	3.84	3.94	3.29	2.78	2.51	2.68	2.73	37.91

TABLE VIII.—SUMMARY OF METEOROLOGICAL DATA BY MONTHS FOR 1916

Month	Temperature (degrees)										Number of days				Precipitation (inches)			Prevailing wind	
	Mean	Highest	Date	Lowest	Date	Range	Mean daily range	Greatest daily range	Date	Least daily range	Date	Clear	Partly cloudy	Cloudy	Rain 0.01 inch or more	Monthly rainfall	Average daily rainfall		Monthly snowfall
AT THE STATION																			
January.....	35.3	70	27	— 4	17	74	25.4	49	13	8	1	4	8	19	15	4.98	0.161	0.70	S. W.
February.....	24.7	57	22	— 7	8	64	18.3	37	22	4	24	1	4	24	10	1.73	.060	10.00	N. W.
March.....	32.0	76	25	— 1	18	77	22.2	40	31	11	2	9	8	14	12	4.72	.152	13.20	S. W.
April.....	46.8	78	20	21	7	58	22.2	36	29	10	13	7	6	17	14	2.92	.097	6.20	S. W.
May.....	60.2	86	26	34	†17	52	24.1	40	10	8	22	8	13	10	14	2.95	.095	.....	S. W.
June.....	62.9	84	24	35	1	83	21.8	41	1	3	7	16	7	17	18	5.05	.168	.....	S. W.
July.....	74.6	96	31	50	6	46	24.2	37	7	11	2	24	5	2	7	2.21	.071	.....	N. E.
August.....	72.2	99	21	41	29	78	27.5	38	†24	11	27	29	2	0	10	2.26	.073	.....	S. W.
September.....	62.1	94	7	30	19	87	25.7	43	4	6	8	16	9	5	10	1.07	.035	.....	S. W.
October.....	50.1	89	8	26	11	81	31.3	50	4	3	21	19	1	11	10	2.03	.065	.....	S. W.
November.....	40.4	71	8	16	15	55	20.6	37	7	1	14	11	6	13	9	2.58	.086	1.75	S. W.
December.....	26.2	61	8	— 6	18	67	19.1	39	24	0	22	6	5	20	12	2.43	.078	14.75	S. W.
Total or average.....	48.9	99	Aug. 21	— 7	Feb. 22	*106	23.5	50	Oct. 4	0	Dec. 22	150	74	142	141	34.93	.095	46.60	S. W.
FOR THE STATE																			
January.....	35.5	75	27	— 8	17	83	.....	56	13	.....	.....	8	7	16	14	5.07	.164	2.00	S. W.
February.....	26.5	69	22	— 18	14	87	.....	49	22	.....	.....	7	8	14	9	1.83	.063	8.40	N. W.
March.....	34.7	87	25	— 10	18	97	.....	50	25	.....	.....	11	8	12	11	4.15	.134	8.80	S. W. & N. W.
April.....	49.3	89	20	18	7	71	.....	45	30	.....	.....	8	9	13	11	2.35	.078	3.30	S. W.
May.....	61.8	95	27	29	†19	66	.....	47	10	.....	.....	11	11	9	13	4.27	.138	T	S. W.
June.....	64.7	94	30	31	1	63	.....	44	1	.....	.....	12	11	7	13	4.86	.162	.....	S. W.
July.....	76.9	103	27	45	† 4	63	.....	49	7	.....	.....	18	10	3	5	1.92	.062	.....	N. E.
August.....	74.4	104	21	39	29	65	.....	44	31	.....	.....	17	11	3	8	3.11	.100	.....	S. W.
September.....	63.7	101	7	27	†19	74	.....	54	17	.....	.....	16	9	5	8	2.56	.085	.....	S. W.
October.....	53.2	93	18	22	†28	71	.....	55	4	.....	.....	18	5	8	7	2.12	.068	.....	S. W.
November.....	42.6	80	17	5	15	75	.....	49	19	.....	.....	15	6	8	7	2.11	.070	1.40	S. W.
December.....	29.1	72	14	— 15	19	87	.....	47	19	.....	.....	10	7	14	13	2.89	.093	11.30	S. W.
Total or average.....	51.0	104	Aug. 21	— 18	Feb. 14	*122	.....	56	Jan. 13	.....	.....	151	102	113	119	37.24	.101	35.20	S. W.

†On other dates also.

*Difference between highest and lowest.

TABLE IX.—SUMMARY OF METEOROLOGICAL DATA FOR 1914-16
AND FOR ENTIRE PERIOD*

	1914	1915	1916	Summary for period
AT EXPERIMENT STATION				
Mean temperature.....degrees	49.2	48.9	48.9	49.2
Highest temperature.....do...	99 June 24	91 July 16	99 Aug. 21	101 July 4, '11
Lowest temperature.....do...	-18 Feb. 25	-13 Jan. 24	-7 Feb. 22	-24 Jan. 13, '12
Range of temperature.....do...	113	104	106	125
Mean daily range of temperature.....do...	22	20.8	23.5	21.1
Greatest daily range of temperature.....do...	51 Feb. 25	42 Apr. 8	50 Oct. 4	55 Oct. 6, '95
Least daily range of temperature.....do...	2 Jan. 4	2 Jan. 12	0 Dec. 22	0 Dec. 22, '16
Number of clear days.....do...	155	132	150	134
Number of partly cloudy days.....do...	59	72	74	89
Number of cloudy days.....do...	151	161	142	143
Number of days rain fell.....do...	114	132	141	129
Total yearly rainfall.....inches	37.38	42.06	34.93	39.89
Greatest monthly rainfall.....do...	6.33 June	8.35 July	5.25 June	11.84 Mar. '13
Least monthly rainfall.....do...	1.23 July	1.17 Mar.	1.07 Sept.	.29 Sept. '97
Prevailing direction of wind.....do...	S. W.	S. W.	S. W.	S. W.
FOR THE STATE				
Mean temperature.....degrees	50.9	50.8	51.0	50.8
Highest temperature.....do...	106 July 12	99 July 31	104 Aug. 21	113 July 4, '97
Lowest temperature.....do...	-24 Feb. 25	-22 Jan. 24	-18 Feb. 14	-39 Feb. 10, '99
Range of temperature.....do...	130	121	122	152
Greatest daily range of temperature.....do...	66 Feb. 25	54 Apr. 8	56 Jan. 13	67 Sept. '97
Average number of days rain fell.....do...	106	123	119	120
Mean yearly rainfall.....inches	35.42	40.83	37.24	37.91
Mean daily rainfall.....do...	.097	.111	.101	.104
Prevailing direction of wind.....do...	S. W.	S. W.	S. W.	S. W.

*Summary at Experiment Station for 29 years; for State, 34 years. For data for 1888-1913 at Experiment Station and for 1883-1913 for State, see Bul. 277.

TABLE X.—DATE OF FIRST AND LAST KILLING FROST AT THE EXPERIMENT STATION AT WOOSTER AND NUMBER OF TIMES THE MERCURY FELL BELOW ZERO SINCE 1894

Year	Date of killing frosts		Number of days mercury fell below zero				
	Last in spring	First in autumn	December	January	February	March	Total
1894.....	April 13	Oct. 7	.....	.....	1	.....	1
1895.....	May 22	Sept. 28	2	5	5	.....	12
1896.....	April 24	Sept. 24	2	1	3	.....	6
1897.....	May 26	Sept. 21	.....	4	.....	.....	4
1898.....	May 9	Oct. 16	.....	1	2	.....	3
1899.....	May 22	Sept. 30	.....	2	8	.....	10
1900.....	May 10	Oct. 18	2	2	4	1	9
1901.....	May 16	Oct. 2	.....	2	.....	1	3
1902.....	April 28	Sept. 16	4	.....	.....	.....	8
1903.....	May 4	Oct. 23	1	3	3	.....	7
1904.....	April 20	Sept. 22	4	7	8	.....	19
1905.....	May 24	Oct. 13	1	1	9	.....	11
1906.....	May 10	Oct. 11	.....	.....	7	1	8
1907.....	May 12	Oct. 14	.....	5	3	.....	8
1908.....	April 17	Sept. 30	.....	1	1	.....	1
1909.....	May 12	Oct. 19	.....	1	.....	.....	2
1910.....	May 15	Oct. 29	1	2	5	.....	8
1911.....	May 5	Oct. 24	.....	1	.....	.....	1
1912.....	June 8	Sept. 30	.....	11	8	.....	19
1913.....	June 10	Sept. 23	.....	.....	1	.....	1
1914.....	May 2	Oct. 27	.....	.....	6	.....	6
1915.....	May 27	Oct. 10	4	4	.....	.....	8
1916.....	April 28	Sept. 19	.....	2	1	1	4
Total or av.	May 11	Oct. 7	21	54	80	4	159

TABLE XI.—MONTHLY MAXIMUM AND MINIMUM TEMPERATURE FOR 29 YEARS AT WOOSTER (Degrees)

Date	January		February		March		April		May		June		July		August		September		October		November		December	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
888.....	54	— 5	54	— 1	67	8	84	19	82	31	89	40	90	43	92	41	82	31	69	27	72	19	57	9
889.....	54	— 12	54	— 5	71	16	80	21	80	30	87	38	92	49	90	45	92	37	76	23	65	16	65	18
890.....	66	5	65	14	60	1	74	23	83	30	88	46	94	45	95	40	88	38	81	30	66	24	48	15
891.....	51	— 12	60	3	61	0	83	21	82	28	89	44	89	49	99	53	98	42	88	25	71	10	58	16
892.....	54	— 20	54	6	65	10	76	28	86	38	90	56	98	48	92	49	88	36	81	25	67	16	61	2
893.....	51	— 9	47	— 2	75	10	83	24	84	36	92	45	95	47	93	37	95	28	85	24	66	15	67	6
894.....	56	1	64	— 1	75	14	92	24	83	35	93	37	98	41	96	41	93	36	80	28	65	31	57	7
895.....	54	— 6	60	— 6	59	9	80	21	94	27	98	35	92	42	94	42	93	34	73	19	72	18	61	2
896.....	53	— 2	58	— 6	65	4	89	19	86	44	87	39	92	45	93	41	92	34	71	21	69	13	56	1
897.....	61	— 18	54	0	69	11	79	21	78	31	88	37	96	50	92	42	96	28	86	25	65	12	60	2
898.....	64	— 1	64	— 9	71	12	77	16	81	32	90	40	96	45	90	46	90	38	86	24	66	13	56	1
899.....	55	— 6	57	— 21	67	9	86	21	86	30	92	40	94	45	95	39	94	32	92	22	66	22	63	2
900.....	54	— 5	65	— 10	57	— 4	78	20	89	25	90	44	95	44	94	49	89	41	86	30	69	6	55	11
901.....	53	— 4	40	0	69	— 1	82	22	82	33	91	38	95	50	94	47	86	34	79	26	67	18	64	11
902.....	47	2	59	— 9	69	9	83	24	97	29	89	39	93	46	88	40	85	32	77	27	72	24	60	5
903.....	60	— 8	63	— 9	76	21	74	19	89	27	88	41	94	42	92	43	89	32	79	26	71	9	49	2
904.....	60	— 21	57	— 10	74	13	72	12	88	33	88	44	92	46	90	42	89	31	83	19	68	15	63	1
905.....	59	— 8	43	— 12	79	10	77	23	82	31	89	38	92	50	90	46	87	36	80	23	61	16	52	13
906.....	72	6	65	— 14	61	— 5	80	21	86	29	92	47	88	46	91	48	90	44	74	22	72	23	58	6
907.....	67	— 14	50	— 5	82	12	78	15	81	29	89	40	88	40	90	43	88	34	82	22	55	18	56	9
908.....	51	4	56	— 3	75	21	80	24	89	30	91	36	92	46	95	43	95	28	84	24	68	17	59	7
909.....	66	— 11	60	— 2	60	12	81	13	84	31	89	42	89	45	89	41	90	30	81	22	72	21	66	6
910.....	45	— 1	48	— 12	84	18	81	23	82	25	90	35	94	44	94	38	91	34	85	24	66	14	49	0
911.....	56	— 11	62	9	67	4	77	16	92	28	94	46	101	43	97	41	87	37	75	22	65	10	61	7
912.....	44	— 24	55	— 16	68	6	78	23	86	36	88	31	90	51	89	41	93	30	82	26	68	18	58	8
913.....	57	4	62	— 2	74	1	83	20	86	25	96	32	95	42	96	45	93	28	81	24	73	12	56	7
914.....	64	0	51	— 18	67	6	87	19	91	29	95	36	95	45	94	49	93	34	82	26	74	13	59	11
915.....	50	— 13	60	0	54	8	88	21	78	28	87	37	91	46	88	36	90	33	80	23	74	19	52	10
916.....	70	— 4	57	— 7	76	— 1	78	21	86	34	84	35	96	50	99	41	94	30	89	26	71	16	61	6
Extremes.....	72	— 24	65	— 21	84	— 5	92	12	97	25	98	31	101	40	99	36	98	28	92	19	74	6	66	— 11

TABLE XI.—MONTHLY MAXIMUM AND MINIMUM TEMPERATURE FOR 29 YEARS FOR THE STATE (Degrees)—Concluded

Date	January		February		March		April		May		June		July		August		September		October		November		December	
	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest	Highest	Lowest
1888.....	68	-15	68	-10	77	-6	92	19	91	23	102	34	97	42	102	35	92	26	80	22	80	17	62	1
1889.....	61	8	70	-14	82	-10	88	15	96	26	92	38	98	46	100	40	98	28	82	17	77	9	73	10
1890.....	75	1	73	5	69	-4	86	20	92	28	101	39	101	43	103	40	92	33	85	29	76	17	65	3
1891.....	65	3	80	-2	74	-5	95	15	93	25	98	40	95	41	101	39	99	36	93	20	76	0	66	9
1892.....	61	-27	74	-1	80	-6	90	14	99	28	101	47	103	40	99	45	96	34	89	20	76	8	70	-12
1893.....	63	-24	68	-14	87	-8	93	20	94	23	102	40	101	42	101	37	100	24	95	15	76	-2	72	-5
1894.....	66	-16	76	-15	91	3	97	16	98	31	102	29	105	36	104	36	103	27	90	15	79	4	70	-27
1895.....	62	-19	70	-24	86	-7	90	16	102	19	105	29	106	34	103	31	105	25	84	8	85	5	79	-13
1896.....	70	-14	78	-18	73	-7	103	15	99	36	98	33	102	39	102	35	100	25	85	17	79	7	67	-15
1897.....	71	-27	72	-9	82	5	92	11	91	25	102	31	113	44	101	38	105	25	97	20	76	8	71	-7
1898.....	71	-18	72	-20	84	5	87	10	92	29	99	39	105	38	100	40	102	33	96	20	76	2	67	-18
1899.....	66	-15	67	-39	76	0	94	6	96	28	102	36	105	41	104	39	107	26	94	20	79	18	69	-7
1900.....	67	-20	80	-20	70	9	87	15	97	20	96	38	103	38	103	40	100	33	93	23	80	0	65	-2
1901.....	67	-10	60	-20	84	8	91	18	90	26	103	30	109	48	101	42	98	29	88	20	79	10	73	-19
1902.....	63	-11	66	-17	82	4	90	17	98	24	98	33	100	43	97	37	94	24	88	21	87	17	63	-11
1903.....	73	-13	69	-20	85	11	88	10	93	22	95	35	104	42	101	38	98	26	93	15	88	2	57	-11
1904.....	70	-30	75	-18	86	-1	81	7	95	27	98	37	99	41	97	38	99	23	92	15	75	0	69	-16
1905.....	65	-17	54	-22	85	-5	89	12	93	26	99	34	100	44	96	41	95	30	89	20	71	10	58	2
1906.....	79	-14	72	-23	74	-12	91	18	94	24	100	34	98	43	101	43	98	36	91	18	82	14	68	-15
1907.....	75	-23	66	-19	96	-2	86	10	89	24	96	36	98	37	96	40	93	29	88	19	71	11	69	2
1908.....	59	-8	66	-22	85	12	91	16	96	25	100	33	102	42	104	37	100	24	90	15	77	5	68	-2
1909.....	74	-17	70	-17	70	6	90	13	91	24	96	36	97	40	96	35	95	25	86	16	80	15	75	-20
1910.....	62	-24	68	-25	90	12	88	19	88	21	97	33	98	43	100	36	93	34	94	18	78	11	63	-10
1911.....	68	-19	76	-2	81	1	86	8	101	25	101	40	107	41	104	34	97	33	88	20	79	8	79	-3
1912.....	57	-37	68	-25	80	-3	89	15	91	31	93	28	101	42	95	40	99	29	93	23	82	3	74	-5
1913.....	70	3	77	-15	80	-8	90	18	95	23	105	29	103	40	102	39	102	26	96	18	78	2	65	-3
1914.....	75	-17	67	-24	78	-2	91	12	102	26	104	32	106	41	101	41	97	26	91	17	80	5	74	-19
1915.....	64	-22	70	-9	61	3	96	12	89	27	96	31	99	43	97	34	96	27	89	20	80	11	62	1
1916.....	75	-8	69	-18	87	-10	89	18	95	29	94	31	103	45	104	39	101	27	93	22	80	5	72	-15
Extremes.....	79	-37	80	-39	96	-12	103	6	102	19	105	28	113	34	104	31	107	23	97	8	88	-2	79	-27

TABLE XII.—MONTHLY RAINFALL AT DISTRICT EXPERIMENT FARMS (Inches)

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Strongsville														
1897	0.91	1.62	3.29	2.88	5.99	1.88	5.56	3.25	1.13	0.87	7.02	1.92	37.32	1897
1898	5.47	3.75	4.82	2.37	3.43	5.60	4.25	5.69	2.72	5.59	3.25	7.39	54.33	1898
1899	4.35	2.32	5.25	2.11	5.58	2.10	5.75	.61	3.74	2.86	1.55	6.36	42.98	1899
1900	3.22	5.53	3.01	2.22	1.85	1.36	4.73	2.49	3.56	2.22	4.91	1.94	37.04	1900
1901	2.73	2.20	4.35	4.76	5.14	3.32	3.15	7.46	5.51	.47	2.51	5.34	48.94	1901
1902	1.17	1.40	2.64	2.91	4.29	3.78	7.39	4.52	5.58	2.73	2.35	3.34	47.66	1902
1903	2.37	2.97	3.18	6.68	1.45	3.78	6.49	8.72	1.88	3.09	2.70	2.62	45.93	1903
1904	6.51	3.59	4.68	3.47	6.07	1.45	5.80	3.42	2.73	1.20	.50	3.87	43.35	1904
1905	2.48	2.73	3.24	3.97	4.38	2.18	5.04	4.11	3.50	2.95	2.92	1.66	39.16	1905
1906	2.03	2.06	.....	1.93	1.01	4.67	2.72	4.30	6.70	.....	4.77	5.12	.....	1906
1907	5.21	1.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1907
1908	.....	.....	.....	.....	2.82	2.17	3.70	3.10	1.00	1.60	1.08	1.90	.....	1908
1909	2.48	2.56	.....	3.49	4.13	3.20	4.40	3.60	2.71	2.60	2.80	1.30	.....	1909
1910	4.80	2.21	1.10	.....	3.05	2.50	1.00	1.37	4.85	3.90	3.98	2.99	.....	1910
1911	.....	1.16	1.85	3.03	1.95	1.80	.80	3.28	5.33	3.85	.....	1.51	.....	1911
1912	1.38	1.49	2.91	5.12	3.62	1.80	6.88	4.74	4.34	2.40	.20	1.89	36.77	1912
1913	4.50	1.43	9.30	2.08	2.15	1.30	2.60	1.70	3.30	3.59	2.61	1.13	35.71	1913
1914	2.00	1.90	2.40	4.95	5.30	3.40	2.00	5.32	.40	.....	.....	.....	.....	1914
1915	1.79	1.45	.....	.....	2.25	3.46	3.86	2.47	3.86	.95	1.41	1.52	.....	1915
1916	3.10	.48	1.26	2.22	2.72	5.02	1.20	1.24	3.60	2.37	2.01	1.19	26.41	1916
Average.	3.14	2.21	3.55	3.51	4.06	3.21	4.07	3.76	3.47	2.54	2.74	2.94	41.30	

TABLE XII.—MONTHLY RAINFALL AT DISTRICT EXPERIMENT FARMS (Inches)—Concluded

Date	January	February	March	April	May	June	July	August	September	October	November	December	Year	Date
Germantown														
1905	.....	.....	.....	3.45	7.70	3.00	3.80	7.90	3.56	4.10	2.24	2.28	.....	1905
1906	2.92	1.07	6.93	1.88	1.34	2.88	6.24	7.46	2.30	1.65	3.80	4.32	42.79	1906
1907	7.22	.32	6.25	2.26	3.20	3.65	4.10	1.93	5.64	2.92	3.25	3.22	43.96	1907
1908	2.11	6.33	4.24	4.53	4.47	1.42	3.86	1.36	.35	.27	1.70	1.31	31.95	1908
1909	3.41	7.67	2.07	5.58	6.98	5.93	4.50	3.34	.89	3.13	1.95	4.00	49.45	1909
1910	3.00	4.25	.10	1.87	5.08	1.58	3.95	1.11	3.96	7.60	.96	2.85	36.41	1910
1911	5.00	1.46	3.00	6.01	1.36	2.67	1.78	4.56	5.16	4.48	3.06	3.81	42.35	1911
1912	3.23	1.68	4.29	6.51	3.49	2.24	3.78	9.05	2.50	2.79	.72	3.30	43.58	1912
1913	8.40	2.05	7.32	5.25	2.62	2.40	3.49	2.23	2.33	2.56	4.80	.88	44.33	1913
1914	2.62	3.75	3.05	2.47	1.43	2.63	2.51	6.21	.18	2.19	2.03	2.72	31.79	1914
1915	2.95	1.75	1.34	1.54	5.58	3.01	5.38	7.40	5.62	2.12	2.32	3.53	42.54	1915
1916	6.34	1.41	3.20	2.13	3.58	5.22	1.76	3.06	2.78	1.91	1.91	2.80	36.10	1916
Average.	4.29	2.88	3.80	3.62	3.90	3.05	3.76	4.63	2.94	2.98	2.39	2.92	40.48	
Carpenter														
1903	.....	.....	.....	3.75	5.69	5.07	4.23	1.02	1.02	2.60	2.73	3.28	.....	1903
1904	3.74	2.89	5.07	3.03	2.69	3.16	3.79	2.71	2.08	1.10	.18	3.40	33.84	1904
1905	1.02	1.35	4.07	2.70	7.02	5.11	3.77	4.11	1.02	5.20	2.45	3.51	41.33	1905
1906	3.58	1.85	3.82	1.43	1.40	6.39	1.40	2.92	3.24	2.58	3.50	3.50	35.61	1906
1907	8.94	2.28	6.13	3.57	3.47	4.49	4.84	4.10	2.94	2.38	2.14	1.72	47.00	1907
1908	1.37	4.31	7.80	5.15	3.36	2.92	3.74	3.50	.48	.85	1.37	2.13	37.98	1908
1909	3.05	5.72	2.77	4.10	4.29	7.63	4.18	2.18	.86	2.12	.90	2.05	39.85	1909
1910	6.40	4.70	.20	3.23	2.91	2.35	3.40	1.74	.99	1.68	1.42	2.80	31.82	1910
1911	5.56	3.08	2.26	3.90	2.06	6.14	1.19	4.69	5.18	3.68	2.20	4.01	43.95	1911
1912	1.48	2.44	3.39	4.04	2.90	2.92	5.46	2.56	2.51	1.80	.38	2.09	31.97	1912
1913	6.78	1.98	1.71	2.74	4.23	2.29	2.64	2.38	2.07	2.89	2.34	2.36	34.41	1913
1914	1.17	2.05	1.72	2.84	2.33	2.53	1.23	4.88	1.07	2.98	1.08	4.65	28.53	1914
1915	2.91	.95	1.05	1.22	4.95	4.40	3.90	2.76	3.64	1.96	3.35	4.85	35.94	1915
1916	4.91	3.33	3.83	1.95	4.72	3.57	2.20	2.95	1.89	2.22	1.46	3.29	36.34	1916
Average.	3.92	2.84	3.37	3.12	3.72	4.21	3.28	3.04	2.07	2.43	1.82	3.12	36.81	

SUMMARY OF OBSERVATIONS ON WEATHER AT WOOSTER IN 1916

LATITUDE, 40° 47' 01"—LONGITUDE, 81° 55' 48"

ELEVATION ABOVE SEA LEVEL, 1,030 FEET

JANUARY

The mean temperature was 35.3°. This is above the average for January and has been equalled but twice since 1888. The highest, 70°, occurred on the 27th, and the lowest, —4°, on the 17th. The rainfall was above the average, and the snowfall very light. Rain or snow fell on 20 days. The total precipitation was 4.98 inches.

FEBRUARY

The mean temperature was 24.7°, which is 1.5° above the average for February. The highest, 57°, occurred on the 22d and the lowest, —7°, on the 8th. Cloudy weather prevailed. Rain or snow fell on 17 days. The precipitation was light, being only 1.73 inches, mostly in the form of snow. The prevailing wind was from the northwest.

MARCH

The weather for the month as a whole was cold and stormy. The mean temperature was 4.8° below the average; the highest, 76°, occurred on the 25th, and the lowest, —1°, on the 18th. Spring work was delayed on account of cold, wet weather. The snowfall was heavy, being 13.25 inches. The total precipitation for the month was 4.72 inches, which is more than 1 inch above the average for March.

APRIL

The mean temperature for the month was 46.8°, which is below the average for April. The highest, 78°, occurred on the 20th; the lowest, 21°, on the 7th. Six inches of snow fell on the 8th, melting off rapidly. A severe electrical storm on the 17th was followed by cold, snowy weather from the 19th to 27th. The total precipitation was 2.92 inches.

MAY

The weather for the month was generally cool and wet, with many high winds. Light frost occurred on the 19th and 20th. The mean temperature was 60.2°; the highest, 86°, on the 26th; and the lowest, 34°, on the 17th. The latter part of the month was unusually wet, seriously interfering with spring plantings. The total rainfall was 2.95 inches.

JUNE

The mean temperature for the month was 62.9°, which is 4.4° above the 29-year average. The highest, 84°, occurred on the 24th, and the lowest, 35°, on the 1st. Rain fell on 18 days, the total fall

being 5.05 inches, which is 0.90 inch above the average for June. Light frost on lowland was reported on the 1st.

JULY

The mean temperature was 74.6°, which is 3.2° above the average for this month. The highest, 96°, occurred on the 31st, and the lowest, 50°, on the 6th. The rainfall was light, being almost 2 inches below the average. The prevailing wind was from the northeast.

AUGUST

The mean temperature for August was 72.2°, which is 2.7° above the average for the month. The highest, 99°, occurred on the 21st, and the lowest, 41°, on the 29th. This month is noted for the number of clear days, 29 clear, with only 2 partly cloudy. Most of the rain fell at night or early morning. The total rainfall was 2.26 inches.

SEPTEMBER

The mean temperature for the month was 62.1°, which is slightly below the average for September. The highest, 94°, occurred on the 7th; the lowest, 30°, on the 19th. The rainfall was very light, being only 1.07 inches. This low precipitation record has been equalled but four times in September since 1888. A killing frost occurred on the 19th.

OCTOBER

The mean temperature was 50.1°, which is below the average for October. The highest, 89°, occurred on the 8th, and the lowest, 26°, on the 11th. The rainfall was also below the average, the total amount being 2.03 inches. The weather was generally favorable for outdoor work. The prevailing wind was from the southwest.

NOVEMBER

The mean temperature for November was 40.4°, while the 29-year average for this month is 40.2°. The highest, 71°, occurred on the 8th, and the lowest, 16°, on the 15th and 16th. The total precipitation was 2.63 inches. The 29-year average precipitation for this month is 2.74 inches. The snowfall was 1.75 inches.

DECEMBER

The mean temperature was 26.2°, which is 4° below the average for December. The highest, 61°, occurred on the 8th, and the lowest, —6°, on the 18th. A heavy snowstorm from the northeast came on the 21st—the estimated fall being about 7 inches, drifting in places and thus making travel difficult. Four inches of snow covered the wheat during most of the coldest weather. The snowfall was 14.75 inches.